

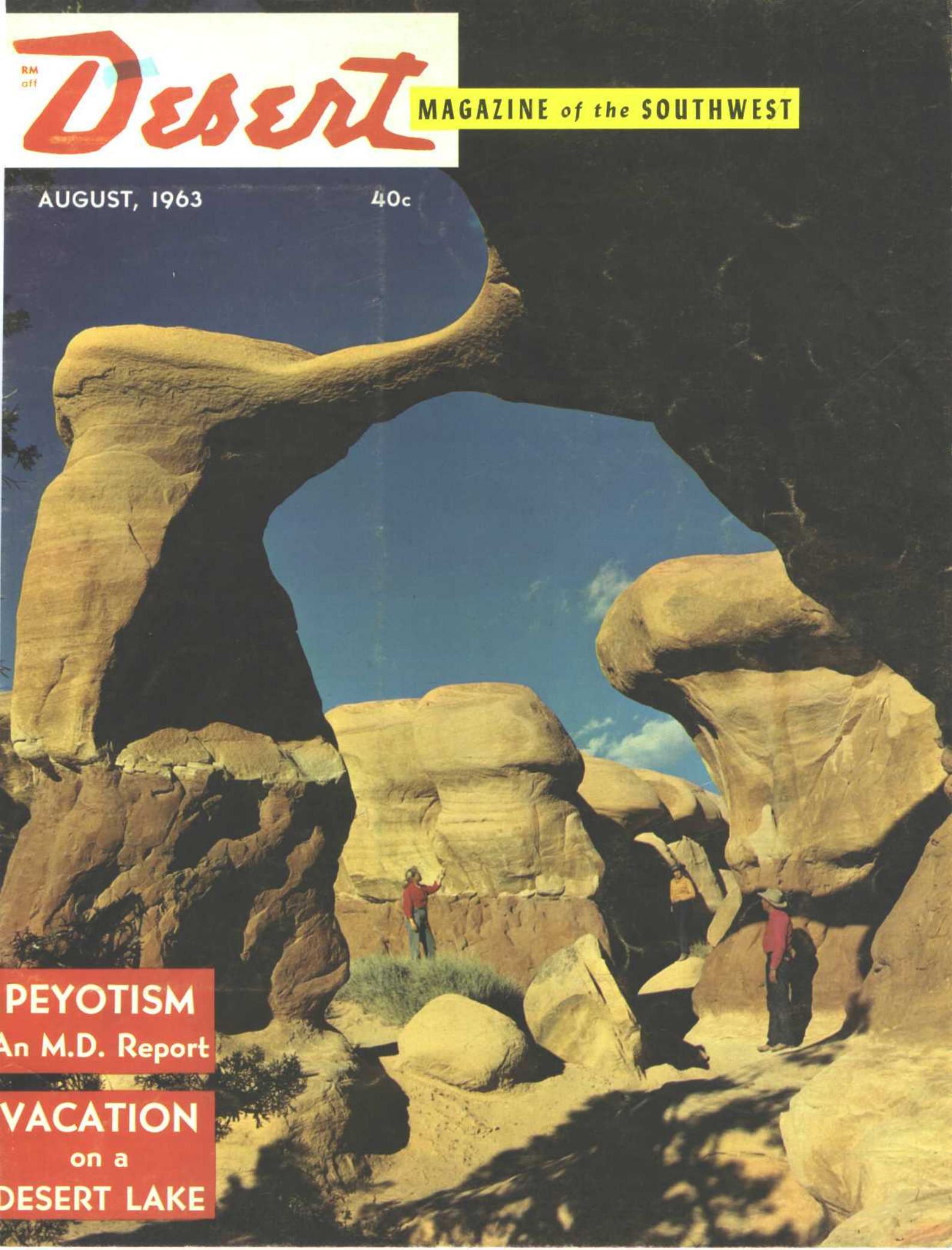
RM
off

Desert

MAGAZINE of the SOUTHWEST

AUGUST, 1963

40c



PEYOTISM
An M.D. Report

VACATION
on a
DESERT LAKE

NEXT MONTH

Desert Salutes

Stories By . . .

Nell Murbarger

Department of Economic Development

Desert Research Institute

Centennial Commission

NEVADA

"Recreation Unlimited"

THE SILVER STATE
WILL BE 100 YEARS YOUNG
IN 1964

Featuring . . .

Scenic Attractions . . . Rock Hunting . . . Fishing
. . . Boating . . . Ghost Towns . . . Indian Lore . . .
Calender of Events . . . plus other attractions.

Special September
Pre-Centennial
Edition
MAP

A souvenir and reference issue you will want to keep.

Desert

CONTENTS

Volume 26

Number 8

AUGUST, 1963

This Month's Cover

Arch in the Devil's Garden, southeast Utah. Fantastic carvings of sandstone support this lovely arch against a deep blue sky. Photo by JOSEF MUENCH.

3 The Desert in August

5 Desert Camera

6 New Ideas for Desert Living

By DAN LEE

8 Petroglyph Loop Trip

Interesting prehistoric Indian writings near Bishop California.

10 Survival in the Desert

First of a series exploring the prehistoric Indians' formula for survival.

12 Jumping Jack Rabbits

By JANICE BEATY. A witty profile of the curious Jack.

14 Utah's Canyonlands by Bus

RAYE PRICE discovers an easy way to visit Utah's backcountry.

16 Voodoo in the Desert

By J. E. P. HYLAND, M.D. A doctor examines the Peyote cult.

19 Rain

ERWIN KAUPER explains how to locate the driest spot in America on his unique weather map.

22 Mines, Minnows and Marinas

By CHORAL PEPPER. A desert-lake vacation for the whole family.

26 Bottle Bonanza

By E. T. REED. An enthusiastic report on a popular hobby.

27 Desert Cookery

LUCILLE IREDALE CARLESON suggests casseroles for easy summer cooking.

30 Use With Care

Tips for Suntanning

33 Planting Palms

It's easy—if you know how and when.

34 The Angel of San Jacinto

HELEN GILBERT reveals a little-known scenic attraction near well-known Palm Springs.

36 Shopping Along a Navajo Trail

There are bargains and treasures still to be found

39 New Southwest Books

By CHARLES E. SHELTON. Reviews of three new publications

42 Letters from our Readers



DURING THE SUMMER MONTHS YOUNGSTERS ABANDON THEIR SEARCH FOR DESERT LIZARDS AND TURN TO COOL WATERS WHERE THEY MATCH WITS WITH MINNOWS.

The Desert in August . . .

TRAMWAY OPENING DELAYED. Impossibility for some dignitaries, including California's Governor Pat Brown, to attend the previously scheduled opening of Palm Springs Aerial Tramway on August 3, coupled with need for additional time to finish the restaurant, has resulted in postponement of the official opening until September 14. The largest and longest single-lift passenger-carrying aerial tramway in the world, the \$7,700,000 tourist attraction will have two 80-passenger cars carrying visitors 13,200 feet, with a vertical ascent of 5873 feet, up the mountain in a matter of approximately 14 minutes each way. Officials expect more than one-half million tourist yearly.

JOSHUA TREE IMPROVEMENTS. A general face lifting and addition of new facilities are already underway at the Joshua Tree National Monument in Southern California, according to Superintendent William R. Supernauth. A contract has been let for the second part of the \$625,000 Mission 66 improvement program, he said.

GOING UP. Eighty-five per cent of the land in the State of Nevada is owned by the United States and approximately 80 per cent of the people live in the Reno and Las Vegas areas. Skylines of both cities are changing with "high rises" taking the place of two-story hotels. Tallest structure in Nevada today is the new addition to the Sahara

DESERT is published monthly by Desert Magazine, Inc., Palm Desert, Calif. Second Class Postage paid at Palm Desert, Calif., and at additional mailing offices under Act of March 3, 1879. Title registered No. 358865 in U.S. Patent Office, and contents copyrighted 1963 by Desert Magazine, Inc. Unsolicited manuscripts and photographs cannot be returned or acknowledged unless full return postage is enclosed. Permission to reproduce contents must be secured from the editor in writing. SUBSCRIPTION PRICE: \$4.50 per year (12 issues) in the U.S.; \$5 elsewhere. Allow five weeks for change of address, and be sure to send the old as well as new address.

To subscribe, or to give a DESERT gift subscription, use the coupon on page 5

NATIONAL ADVERTISING REPRESENTATIVES:

Arden E. Roney & Associates

580 South San Vicente Blvd., Los Angeles 48, California. Phone: 651-3930
NEW YORK—210 E. 53rd St. PL 3-1780
CHICAGO 1—35 E. Wacker Dr. ST 2-8196
SAN FRANCISCO 3—1355 Market St. UN 1-7175
DETROIT 26—658 Book Bldg. WO 1-6063

JACK PEPPER
publisher

CHORAL PEPPER
editor

Address Correspondence To:

Desert Magazine, Palm Desert, Calif. Phone: FI 6-8144

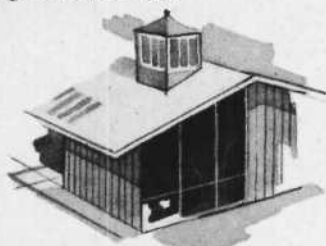


FRESH-AIR
COOLING



DESERT-PROVED
for more than 23 years

A gentle breeze of fresh, cool air flows constantly into every room when you cool your home with an Arctic Circle V-Series Air Cooler. Patented Microglas liners on the cooling pads help keep out dust and pollen. For more than 23 years, Arctic Circle Coolers have led in features that assure better cooling at lower cost.



See the Yellow Pages
for the Nearest

ARCTIC CIRCLE
Air Cooler
DEALER

in Las Vegas. Just completed, the \$6 million 24-story Sahara Tower rises in the desert where 50 years ago there were only burro and jackrabbits. Next month's *DESERT* will publish a special edition saluting Nevada which celebrates its 100th birthday in 1964.

INDIO THINKS BIG — Not only has the comparatively small community of Indio, California started on a mammoth \$1,300,000 project to salvage an old Egyptian temple which would otherwise be covered by backwaters from Egypt's Aswan Dam, but they have enlisted the aid of actress Elizabeth Taylor to help. The directors of the Temple Derr for Indio, Inc. a non-profit organization seeking donations to move the temple from Egypt to Indio, have contacted Elizabeth Taylor for a contribution and support in bringing the 3,300 year old temple to Southern California. Donations from \$1.00 up should be sent to the Temple Derr for Indio, Inc. The project has been approved and endorsed by the United Nations Educational and Scientific and Cultural Organization, according to executive director Lucile Carnes, who said donations are tax free.


DEATH VALLEY ROADS OPEN, SOME CLOSED. Major roads through Death Valley National Monument will remain open during the summer months, but some scenic sideroads will be closed due to excessive heat and infrequency of road patrols, according to Superintendent John A. Aubuchon. The Museum and Visitor Center will also be open seven days a week from 7:30 a.m. to 4:30 p.m. Visitors should check at the center as to what roads are closed.

WHOSE CROWDED? Although the population explosion in the West is going full blast, there is still plenty of room. More than a quarter of California is desert and barren land, with nearly half of the State's 100,300,000 acres belonging to the Federal government.

SALTISH SALTON SEA. Riverside County's Salton Sea, which attracts millions of Southern California fishermen and water enthusiasts every year, will become too salty for water contact sports in 20 to 40 years unless something is worked out to remove the increasing salt content. In presenting a plan to solve the problem to the Colorado River Basin Regional Water Pollution Board, executive officer Arthur Swajian, Indio, said that "despite present control activities Salton Sea, within a limited number of years, will become too highly mineralized to be used for water contact sports." Taking militant action, Swajian proposed a plan to remove the salt by diking off 28 square miles of the sea and then dredging the salt left there by evaporation.

TWO MARINAS OPEN. Two new boating marinas are now in operation following dedication ceremonies. Oceanside opened its \$7.5 million Oceanside Harbor which it describes as "California's newest pleasure marina." The 600-slip harbor, which took two years to build, is the only such marina on a 70 mile stretch between Newport Beach and San Diego. The famous 4-mile bathing beach is the "finest municipal bathing beach in all southern California." Blythe, California opened a \$40,000 small boat launching facility featuring a 24-foot-long ramp which will be available to fisherman and boating enthusiasts at no cost.

AUGUST CALENDAR. 8th-11th—New Mexico's 42nd annual Inter-Tribal Indian Ceremonial, Gallup, New Mexico. 10th—Smoki Ceremonials and Snake Dance, Prescott, Arizona. 18th-24th—Indian Snake Dances, Winslow, Arizona. 21st-25th—Farmers Fair, Hemet, California. 23rd-25th—Coconino County Fair, Flagstaff, Arizona. 28th-Sept 2—San Bernardino County Fair (Rodeo 31st-1st). 30th-31st—Sheriffs Pose Parade and Rodeo, Sedona, Arizona. 31st-2nd—Lions Stampede and '49er Show and Parade, Fallon, Nevada.



Desert CAMERA

(Infrequent desert lightning is an elusive subject for both professional and amateur photographers. We consider Bob Riddell's article and striking picture so unusual that this month we are devoting DESERT CAMERA to the Tucson, Arizona photographer).

Let's try something new in picture taking and add photographing lightning to our list. This is easier than you might think.

As in shooting sunsets, pre-selection of locations are important as are luck and perseverance. I have locations in the east, west, north, and south and can catch lightning anywhere. In the southwest, lightning is most dominant during July and August, and in other parts of the country varies with the rainy seasons.

Cacti, trees, buildings, windmills make good subjects. Tall stalks of corn silhouetted against a full sky of lightning made one of the nicest pictures I have seen.

To aid in focusing on a close subject I use a flashlight—also handy to check lens setting. If your subject is at infinity, then, of course, you merely set your lens at this setting.

To take the picture, open the shutter and leave it open for 10, 15, or 20 minutes at F8 or F11. It's hard to overexpose with black and white film with lightning as the only source of illumination. The longer you expose, the more interesting the pattern. If you are near a road, put your hand over the lens when stray car lights approach.

Catching daylight lightning is much harder; it may take several exposures before you record a flash on film. Your camera lens is set for daylight reading, of course.

So next time it looks like a storm and lightning is coming your way, take off and challenge nature to a photography session. You may come back with pictures few friends have in their albums.



THIS UNUSUAL LIGHTNING PICTURE WAS TAKEN BY BOB RIDDELL NEAR HIS HOME IN TUCSON, ARIZONA. CAMERA DATA: SPEED GRAPHIC 4x5, 5½ ILEX SHUTTER, SUPER XX FILM, 20 MINUTES OPEN SHUTTER AT F11, AT 11 P.M. SEE DESERT CAMERA.

DESERT Subscription Service

To Subscribe

Mail this form with your payment

check one { ☐ New Subscription
 ☐ Renewal

check one { ☐ 1-year subscription . . . \$4.50
 ☐ 2-year subscription, or Two 1-year subscriptions . . . \$8.00

To Change Your Address

Magazines are no longer forwarded by the post office when you move. To insure uninterrupted delivery please attach your magazine address label here and print your new address below.

Name _____

Address _____

To Give a Desert Subscription

Print your name and address above, and name and address of recipient below.

Indicate below how we should sign your gift card

"From _____"



One Time Only FALL CLEARANCE SALE

During August and September

40% off on all KAR KAMPS

20% off on all Luggage Carriers

KAR KAMP MFG.

8925 E. GARVEY AVE. — DEPT. L
S. SAN GABRIEL, CALIF.

EVERY MONDAY

DURING THE 1963 SEASON

A Four-Day Motorboat Tour
of Glen Canyon (Lake Powell)
to Rainbow Natural Bridge

(Start at and return to Hite, Utah)

Also • Day Trips • Sightseeing Rides

LITERATURE UPON REQUEST

GLEN CANYON BOATING

WHITE CANYON, UTAH



New Improved METAL DETECTOR

Finger tip nob control... low cost operation... greater sensitivity... battery checker... easy to operate... depth: 6 ft....

Model 27 (DeLuxe) photo above \$119.95
MODEL 711 \$149.00

NEW NEW NEW

RAYTRON'S MODEL 990 \$165.00
NEW SUPER SCOPE

Completely transistorized, with long durable life... easy to operate... maximum sensitivity and performance up to 28 ft. depth.

★ ★ ★ ★

LAKEWOOD CHEMICAL KIT \$36.00
Shipped express only

MINERALIGHTS: complete line from
\$12.75 to \$109.50.

★ Lapidary Equipment - Supplies ★

Gems-Minerals
Books ★ Jewelry
★ Tools

★ ★ ★

**Triple Beam
Balance
by Ahaus**

Complete with
specific gravity
attachment, and
cover \$41.25



Compton Rock Shop

1405 S. Long Beach Blvd., Compton, Calif.
Telephone: 632-9096

NEW IDEAS for DESERT LIVING

By DAN LEE

OUTDOOR CHAIRS — One of the most striking examples of a new idea in outdoor living is the *Sun Goddess Sand Chair*. An eye-catching aluminum frame with tough nylon webbing makes the new sand chair a real stopper. Reinforced at points of stress, with dimensions of 18-inches high, 17-inches wide, the chair weighs less than comparable wood furniture, yet outlasts wood when exposed to blistering sun and continued heat. Looks like rugged equipment ready for the desert patio. Prices available from Hampden Specialty Products Corp., 295 Fifth Avenue, New York 16, N. Y.



PORTABLE WINCH — Another new portable winch for medium-duty emergency service has hit the market. This time it's an electric-powered model weighing just 30-pounds overall, operating off either 115-volt AC power, or from a 12-volt storage battery. It measures just 10 $\frac{3}{4}$ x 12 x 7 $\frac{3}{4}$ inches, and yet is rated at a pull of up to 2000 pounds. Has machine-cut spur gear drive, an automatic brake to stop and hold loads, an emergency hand crank, a protective cover, and steel drum barrel. The winch comes equipped with 30-feet of 3/16-inch aircraft cable and hook. Price not announced, but this item may be a practical accessory for the backcountry driver. From Tulsa Products Div., Vickers, Inc., 731 East First Street, Tulsa 20, Okla.



BACKPACK UNIT — The handiest pack-in unit I've seen in many years, the new *Himalayan Ranger Pakbag*, is made of strong but lightweight materials, weighing just 16 ounces. Polyvinyl chloride-coated fabric has great abrasion-resistance. The unique feature is the removable side-pockets, which can be then used for belt-pack duty alone or in pairs. The three outer removable pockets are waterproof Herculite. The *Range Pakbag* which straps onto all Everest Pak frames, has dimensions of 16x10x21-inches. Retail price is \$8.95, with front pocket at \$3.95, side pockets at \$2.95. Himalayan Industries, 807 Cannery Row, P. O. Box 1647, Monterey, Calif.





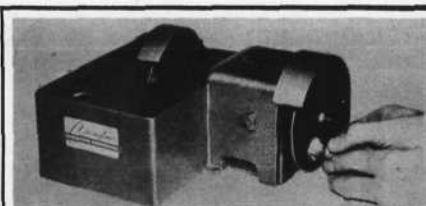
A NEW WATER JUG — Made of lightweight plastic foam, the new *Scotch-Kooler* insulated jug has some amazing performance features. The maker claims that it will keep boiling water too hot to drink for over six hours. And when filled with ice water, and exposed to a 100-degree hot sun for 12 hours, the contents when checked registered just 40-degrees. That's real efficiency, and sounds like the kind of jug most desert travelers will find useful. The *Scotch-Kooler* is available in several colors, and has an inner and outer seamless polyethylene liner. Priced at \$5.95 and up from Hamilton-Skotch Corp., 130 East 59th St., New York 22, N. Y.



ANGLER'S SHOES — As any fisherman can tell you, scooting up and over slippery rocks alongside a canyon creek requires sure footing, and this is something difficult to achieve in most ordinary ankle-top shoes. The new special fisherman's shoe by Weinbrenner looks like quality merchandise with practical appeal. They call it the *Strike*, and I'd say if you wanted something out of the ordinary, a shoe with an aim in life, the *Strike* may be a good choice. Priced reasonably at \$12.95, from Weinbrenner, Division of Textron, Inc., 2025 North Summit Avenue, Milwaukee 1, Wis.



PORTABLE KITCHEN — Want a compact LP-gas stove, lantern, and heater all rolled into one package? The *Junior Port-A-Kitchen* is just that, and looks to be one of the cleverest camper's accessories in years. The unit is designed to be mounted atop any refillable LP-gas fuel tank of small capacity, such as the 11-pound bottle. Also fits the 20-, 30-, 40-, and 60-pound cylinders. Handy for desert cabins or desert camp-out. Capacity is 4000 btu per hour. LP-gas heats fast, and is reliable and clean-burning. The lantern attachment has regular tie-on replaceable mantles. Priced at \$13.95 for basic stove-heater, with lantern attachment extra at \$9.95, the *Junior Port-A-Kitchen* is available from Appolo Products, 122 E. Michigan Ave., Battle Creek, Michigan.



IT'S EASY AND LOTS-OF-FUN

Make Beautiful Gems Now! Learn about this fascinating hobby in a new booklet, "SO YOU WANT TO CUT GEMSTONES" and Informative Catalog—\$1.50 value for only 25c. Send for yours **TODAY**

Covington Lapidary Eng. Corp.
1st. & Hwy. 99 Redlands D, Calif.



APACHE LAND

BEAUTIFUL
SCENERY
FISHING
HUNTING
FREE
CAMP GROUNDS
MODERN CABINS

a Vacation Land
to Remember

**FORT APACHE
INDIAN
RESERVATION**

The White Mountain Apache Indians welcome you. Come and enjoy the wonderful mountain climate, the beautiful primitive scenery, clear, cold streams and the best trout fishing in the Southwest.

FOR INFORMATION AND MAPS, WRITE
**WHITE MOUNTAIN
RECREATION ENTERPRISE**
P. O. BOX 218
WHITERIVER, ARIZONA

TRAVELERS' DISCOUNT



**INTERNATIONAL
SAVE 10% CASH
ENTERTAINING
VACATIONING
TRAVELING**
MAIL COUPON, FREE DETAILS

NATIONAL DISTRIBUTORS DEPT BB18
P. O. BOX 420 ARCADIA, CALIF.

Name.....
Address.....
City.....
State.....

HISTORICAL BOOK SPECIALTIES

DEEPEST VALLEY by Genny Schumacher. Guide book to Owens Valley area. Trails, Geology, Wildlife, History. What to see and where. Paper \$2.95, cloth\$4.75

MAMMOTH LAKES SIERRA by G. Schumacher. Places to see, History, Geology, Wildlife. Guide book to ever popular area. Back country hiking. Paper\$2.45

STORY OF BODIE by Ella Cain. Stories of how this western mining camp earned the reputation of being the most lawless, wildest and toughest in west. Paper\$2.50

100 YEARS OF REAL LIVING. Bishop Centennial stories. Full of photos, facts, history. Illustrated with old newspaper clips. Paper\$1.00

FIELD GUIDE TO WESTERN BIRDS by Roger Tory Peterson. 740 illustrations in this standard bird book for all western bird watchers.\$4.95

DESERT WILDLIFE by Edmund C. Jaeger. depicts lives of 40 native mammals, birds and reptiles of the southwest deserts. Many unusual photos.\$5.95

GEM CUTTING by John Sinkankas. A lapidary's manual. Much useful information. Illustrated.\$11.75

MANY OTHERS. Write for complete list. Postage prepaid if payment enclosed with order. In Calif. add 4% sales tax.

PIÑON BOOK STORE

206 North Main St. Bishop, California
In the Heart of the Eastern High Sierras

V-8 POWERED JEEP & SCOUTS

When your rig is V-8 powered, your enjoyment is tripled. Sand, hills, mud are no longer obstacles. Highway travel is quicker, giving more time to roam the desert. Chuchua's adaptor housings are designed to make each installation easy and strong.

Adaptors are full bell housings, not plates, using 9½" input shafts making little or no firewall cutting necessary.

Priced from \$46.50 for all General Motors, Chrysler, and Ford and Mercury V-8's

Write today for FREE information
BRIAN CHUCHUA'S

Four Wheel Drive Accessory Center,
1625 Harbor Blvd., Fullerton 7, Calif.

FOREIGN JOBS

Foreign employment offers men and women choice of 19 countries — free transportation — special tax benefits — bonuses — liberal vacations — And a most unique way of life in government careers or with American companies, their subsidiaries. Over half a million Americans work and live exceptionally well outside the U.S.A. You can earn up to \$1,600 per month paid in U.S. currency. For complete information send \$2 to Foreign Projects, P. O. Box 1945, Beverly Hills, Calif.

CALIFORNIA JOBS

Thousands of new job openings now in Southern California in all fields. Permanent job security. Send \$2 for job information, names and addresses to California Jobs, P. O. Box 1944, Beverly Hills, Calif.

PETROGLYPH LOOP TRIP

FOUR major petroglyph areas on the desert side of the Sierra Nevada Mountains north of Bishop, lie along the path of a 50-mile loop trip. While 25 of these miles are dirt road, the standard car will have no trouble here. The trip is being promoted by the Bishop Chamber of Commerce, in cooperation with the Eastern California Museum Association and the Eastern Sierra Gem and Mineral Club.

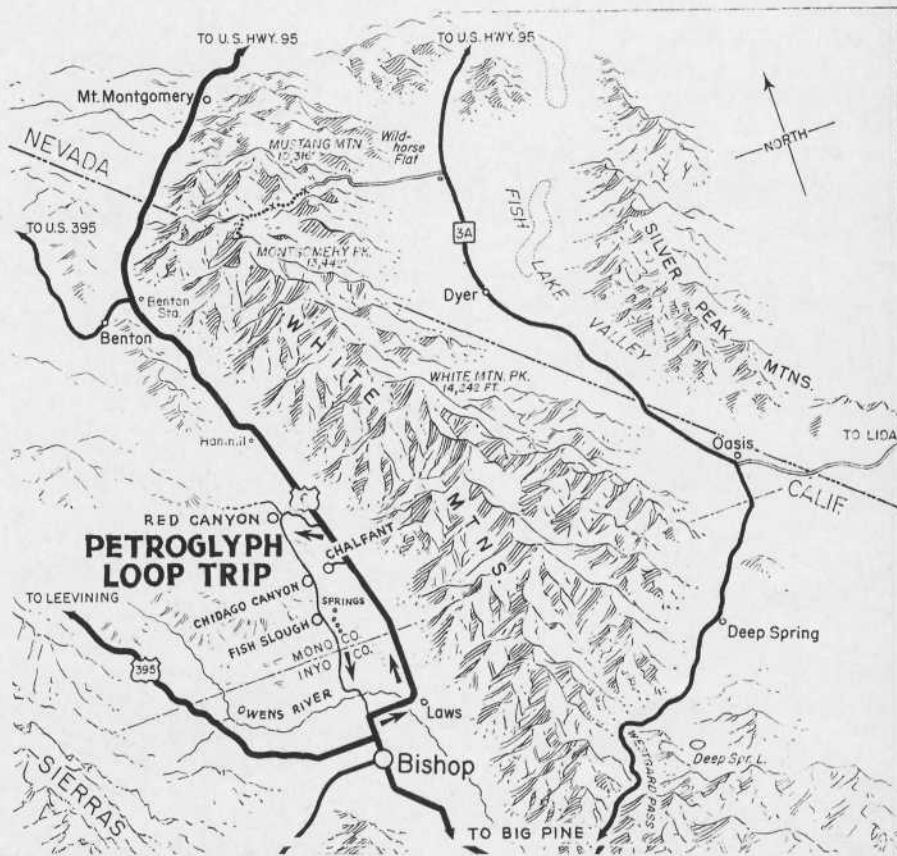
The petroglyphs were incised in a volcanic flow stone known as the Bishop Tuff. An estimated 35 cubic miles of this material is deposited in the valley between the Sierras and the White Mountains.

To the ancient Indians, this dark rock provided an excellent—and end-

less—"writing material" supply. What their "doodles" meant is anyone's guess, although more and more scientists are devoting time to the study of these writings and their possible meanings.

The Bishop loop trip's four sites are:

Chalfant Petroglyphs—on a turn-off from the main highway, nine miles north of the Mono-Inyo county line. These petroglyphs are carved on east-facing cliffs, north and south of the roadside sign directing visitors to this locale. High on the light-colored walls of a recess in the bluffs north of the sign, is a design four feet in diameter—the largest known in this area.





A SECTION OF THE CHALFANT PETROGLYPHS

Photos By Curtis Phillips

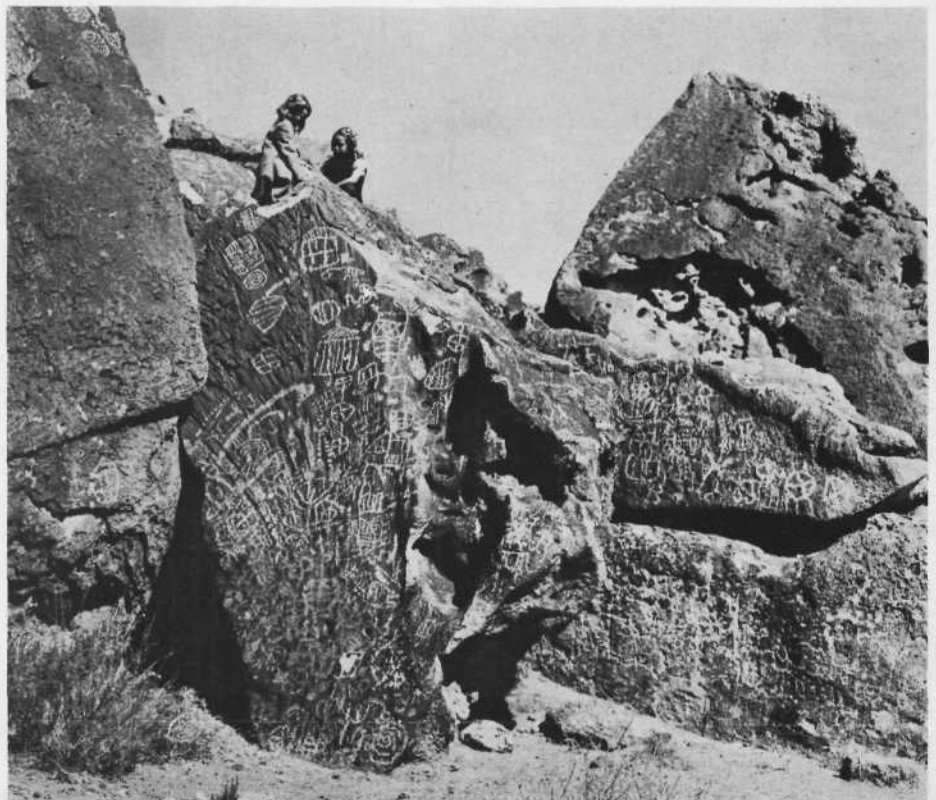
Red Canyon Petroglyphs—at the top of the loop. The hieroglyphics in this area are extensive, covering the tops of the low ridges as well as the cliff walls. This group is noted for its many hand- and foot-prints, and large animal tracks. Picturesque Red Canyon runs west into the mountains.

Chidago Canyon Petroglyphs — on Fish Slough Road, which follows a portion of the old stage route which connected Bishop with Bodie and Aurora mining camps. The Chidago (pronounced *shi-day-go*) group features so-called Newspaper Rock — popular with children who enjoy climbing rocks.

Fish Slough Petroglyphs—geometric designs are scattered on boulders west of the Fish Slough sign. This was a popular Indian camp, and evidence of past habitation is extensive. From March through early June, Fish Slough Springs is a popular stop-over place for migrating birds.

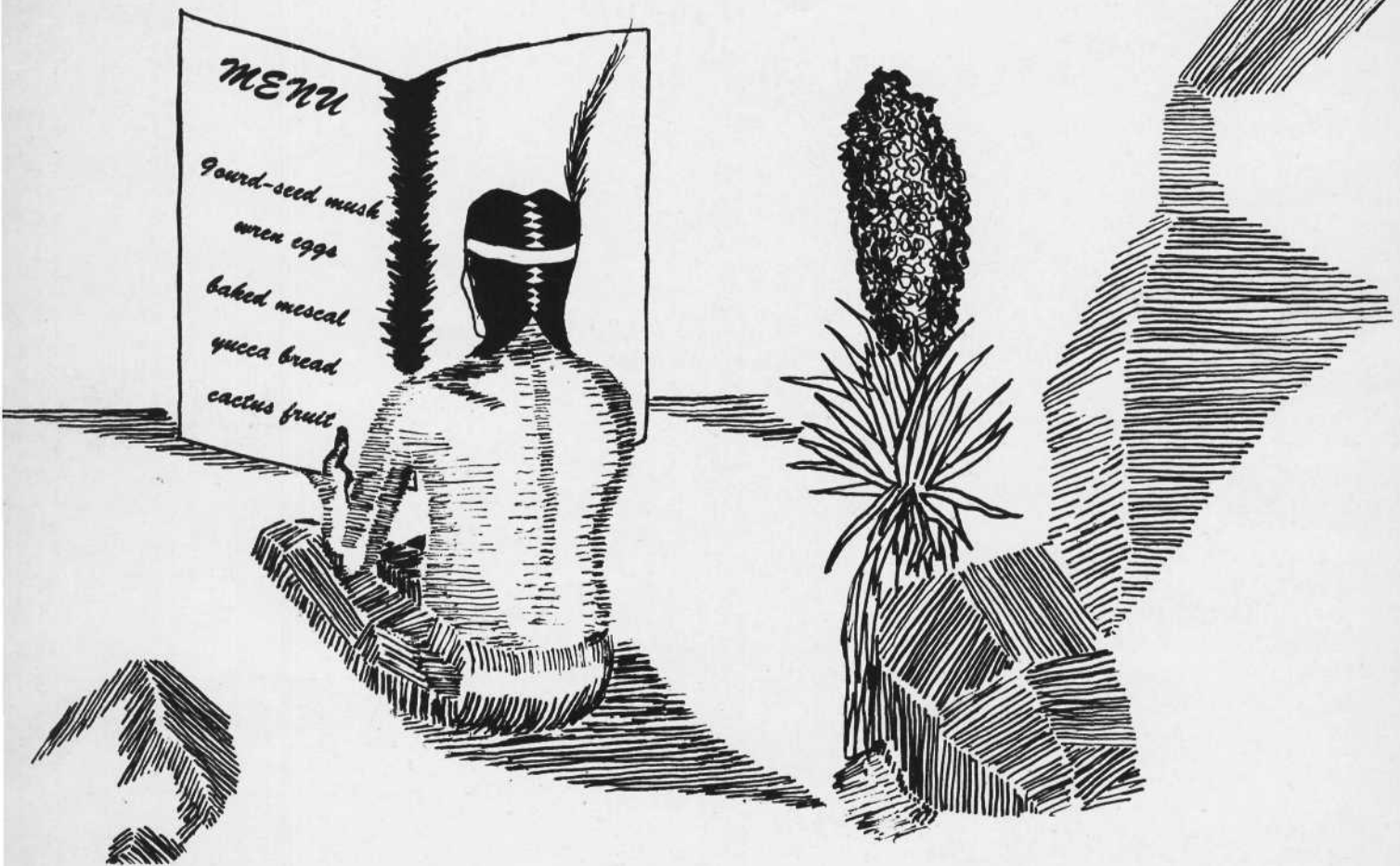
There are no roadside services on the loop route; there is no wood or water. But, there are a million petroglyphs to examine, wonder over, and photograph. ///

CHILDREN PLAY ON "NEWSPAPER ROCK" IN CHIDAGO CANYON



SURVIVAL in the DESERT

First in a series of articles exploring the prehistoric Indian's formula for survival



MODERN man is splendidly at home in his air-conditioned desert with supermarket food, but how well would he adapt to a powerless, merchantless, atomic-blasted land, or even a transportation breakdown on the desert?

Stranded for a full day without water at 120-degrees, a healthy man will die by nightfall. The human body was not designed for an arid existence. And yet, human life has persisted. How did prehistoric man manage to survive and leave a heritage on every desert of the world?

Actually, he did fairly well. And so could today's desert dweller, with imagination and wit. He may have to substitute scotch highballs for tequila cocktails, but a full-course dinner from soup to nuts grows almost under his feet. His problems would not result from a bare cupboard. Rather, they'd result from lack of

know-how in making use of uncultivated desert life.

With information largely furnished by naturalists Ted Whitmoyer and Derek Hambly of the National Park Service, *DESERT* brings you a monthly series of eight articles reconstructing the survival formulas established by early Southwest Indians.

Their fight for survival was a daily occurrence, not merely a matter of temporary displacement. Following trails of animals and birds to water, primitive man migrated hundreds of miles across desolate land. Enroute, he set up camps at which he replenished his food supply and sucked trickles of moisture from the barren ground.

Usually these camps fell near the shade of desert mesquite — for good reason. Where mesquite occurred, there also occurred water. It might lurk far below the surface but it was there. Small animals, such as rabbits



and mice, knew this too, and where there were rabbits and mice there were also predator snakes. As a consequence, the mesquite indirectly provided a varied feast. Rabbits and mice ate the mesquite beans; snakes ate the rabbits and mice; and the Indian ate the whole caboodle!

Very early primitive man learned to use everything at hand, and to use it well. Not even plant life was allowed to serve a single purpose.

Consider the desert gourd, for example. In flat, sandy areas this wild plant blossoms and then bears a beautiful gourdlike fruit. The flesh of the fruit was eaten and the seeds ground into a mush. Then a soap was made from the plant's crushed roots. (This soap is irritating to the skin if not rinsed off thoroughly.) Only the flower failed to serve a survival need of man. But then, who knows? Perhaps a pretty maiden tucked one behind her ear.

Fictional tales of man's survival on the desert may credit the barrel cactus with a heroic role, but in reality there is little evidence of it ever having saved the life of a thirst-maddened wanderer.

Nevertheless, an emergency ration does lurk within its thorn-nettled body. The trick is, how do you get it out?

No other variety of cactus has a more formidable array of spines. Even thirsty Indians tackled the barrel cactus as a last resort. A slight prod near the base will topple its shallow-rooted body to the ground, so it is necessary to carefully remove a section of the top by cutting with a sharp implement or crushing with a well-aimed blow.

Unfortunately, water will not pour forth. The tissue of the cactus must be pummeled into a pulp. After a few moments, water collects in the barrel's hollow.

Reports vary as to its taste. One authority compared it to a raw potato and found it refreshingly pleasant, but others complain of bitterness and warn that its heavy alkaline content may produce stomach cramps. Possibly both reports are true. The barrel cactus is constructed with an accordionlike "stomach", in a sense that its body contracts during periods of limited moisture, but during a rainy season will expand with its replenished store of fresh water. This could well contribute to the variations in taste.

The barrel cactus serves another function for survival—that of a compass. This is because of its inclination to list to the south. As the sun passes from east to west along a path somewhat to the south of us, its intense rays tend to dry the south side of the barrel more quickly than the north. This permits the tissues on the north to grow faster and thus push the cactus toward the south. This condition, of course, is true only in a free-standing barrel cactus unshaded by other growth. Otherwise, the cactus will lean toward the brightest source of light, which may not always be from the south.

A popular southwestern confection called "cactus candy," which tastes like candied melon rind, is a modern use for the fleshy barrel cactus. However, a man forced to seek survival on the naked desert might not find the recipe's accompanying ingredients. ///

COMMON

EDIBLE

and USEFUL

PLANTS

of the WEST

A New & Useful Book by
MURIEL SWEET, Botanist

More than 115 line-drawings . . .
every plant illustrated . . .

*Factual Guide to Plants Which
Gave the Western Indians Food
& Healing . . . From the Deserts
to the Highest Mountains . . .*

only \$1

post and tax paid

ORDER FROM:

DEPT. D
NATUREGRAPH CO.
HEALDSBURG, CALIF.

WHEN YOU WRITE

. . . or phone in response to an ad in DESERT, it only takes a moment to mention where you saw it. The firm you are doing business with will appreciate knowing how you learned of them, and DESERT will be grateful for your support and friendship thus expressed.



THE FIRST
PICK-UP
CAMPER
TO BE TESTED
ON A 'ROUND
THE WORLD
TRIP

The unique hydraulic mechanism which raises the camper top can be safely operated even by a small child. Locks prevent accidental lowering. The top is lowered quickly by the simple turn of a valve.

The Alaskan Camper is quickly transformed from its compact low silhouette on the road to roomy walk-in living quarters. Drive safely at any speed with minimum drag and sway. Moments later, enjoy the comfort and conven-

ience of a weathertight, high ceiling, home away from home complete with three burner stove, sink, cabinets, ice box, beds, and many other luxury features.

SIX
FACTORIES
TO SERVE
YOU

Write today to the factory nearest you for free folder describing the most advanced camper on the road.

R. D. HALL MFG., INC.
Dept. D
9847 Glenoaks Blvd.,
Sun Valley, Calif.

CAMPERS, INC.
Dept. D
8819 Renton Ave.
Seattle 18, Wash.

PENNACAMP, INC.
Dept. D
P. O. Box 264
Manheim, Penna.

CANADIAN
CAMPER
Dept. D
77 Pelham Ave.
Toronto 9, Ontario

MOBILE LIVING
PRODUCTS, LTD.
Dept. D
P. O. Box 548
Red Deer, Alberta

R. D. HALL MFG., INC.
Texas Div., Dept. D
6911 Stearns St.
Houston, Texas

BY
JANICE
BEATY

Jumping Jack Rabbits

This is the "Year of the Hare" according to the Chinese zodiac. Babies born this year can expect a long life, says ancient tradition, for the first hare on earth lived to the ripe old age of 1000 before he wound up on the moon pounding out the drugs of immortality. But the Chinese are not the only folks influenced by hares. The hare — or jack rabbit as we know him — plays quite a role in our own lives. Our celebration of Easter, is partly his doing. Long before Easter became a Christian holiday, it was a festival for the pagan goddess Ostara of northern Europe. (Our word "Easter" comes from her name.) Legend has it that the hare was originally a bird, but begged Ostara to transform him into an animal that he might walk on earth. She did, and in grateful thanks the hare laid eggs at Ostara's festival every spring. Many people see a hare-in-the-moon instead of a man. The Hindus of India tell tales of the moon hare who is king of all earthly hares. A Japanese hare reputedly pounds rice dough on the moon for making cakes in the shape of his home. And because early Europeans saw a hare-in-the-moon, the date for Easter every year is still determined by the moon's phases. Although we call him Easter "rabbit," he is not one, for true rabbits, native to Europe and Africa, are born naked, blind, and in a deep burrow. No wild North American "rabbits" can make these claims, so regardless of what we call them, all are really "hares." But no legend about him is as fantastic as the real hare himself. He is one of the fastest creatures on the Western plains. The Prairie Hare or White-tailed Jack Rabbit (*Lepus townsendii*), for instance, lopez along at 35 mph and has no trouble at all accelerating to 45 mph if necessary. His prodigious high jumps of 5½ feet are not made just for fun, but often for the practical purpose of taking a quick look around. And he really is partial to

moonlight. Often the moonlight nights of mid-winter will draw together up to a dozen of these jacks for the fun of frolicing back and forth in a circle almost like a community dance.

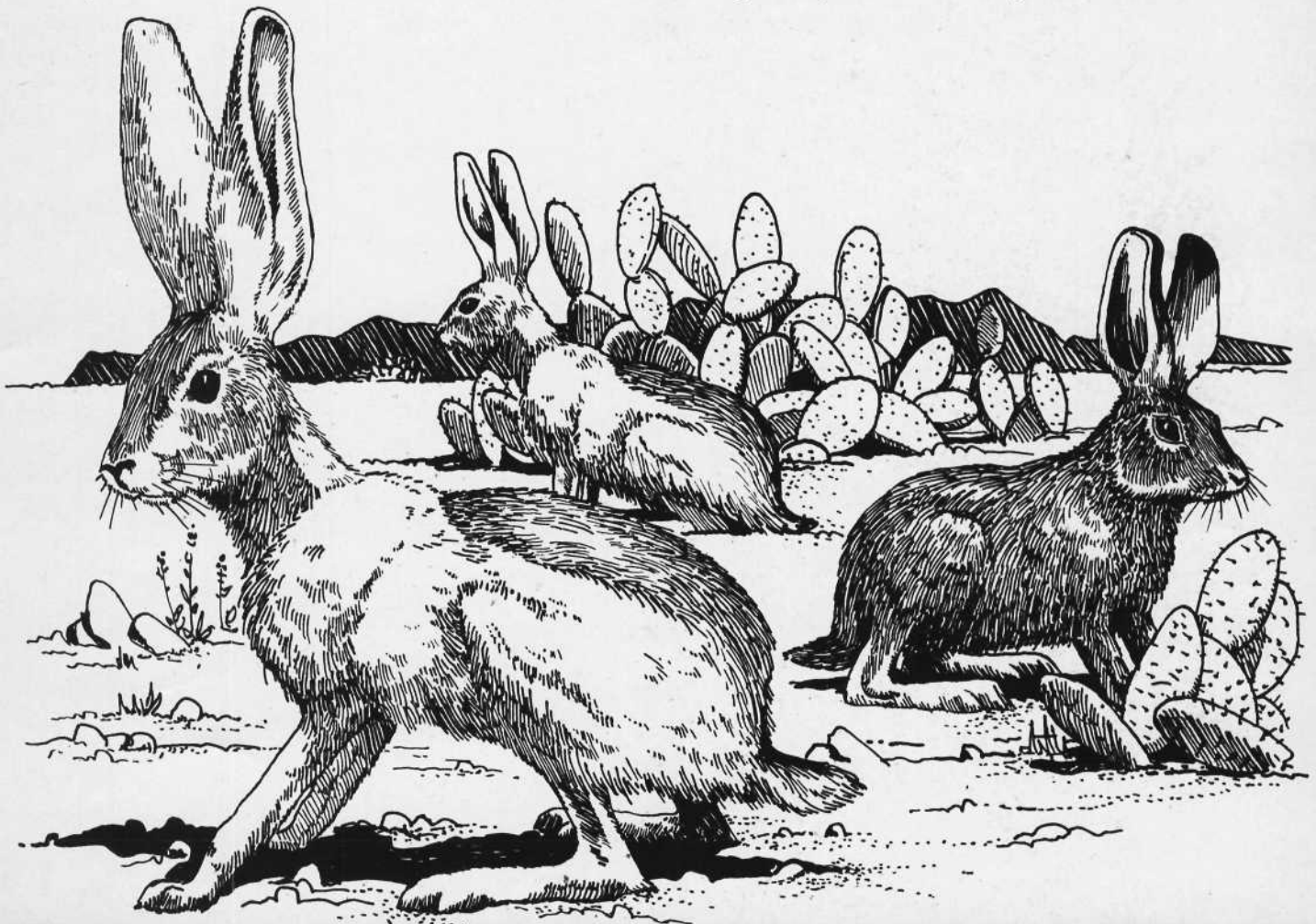
The Black-tailed Jack Rabbit (*L. californicus*) of our own southwest is remarkable for his ability to exist without drinking water. His diet of succulent plants seems to provide enough moisture, so that even where water is available he may not touch it. Enormous hordes of Black-tailed Jacks sometimes build up, and in certain areas they are trapped by the thousands in huge rabbit drives. The ancient Hopi Indians hunted hares like this, driving them into strung-out nets and then stunning them with boomerangs.

Most curious of our southwestern hares are the White-sided Jack Rabbits or Antelope Jacks (*L. callotis* and *L. alleni*), both of south-central Arizona. They have a whitish area on their lower sides which can be shifted around at will by the remarkable contraction of certain skin muscles. Even during hot pursuits this shifting takes place, with the white areas always being pulled onto the side facing the enemy. They flash in the bright sunlight almost like an intentional warning signal to other hares in the vicinity.

While hares may be the epitome of meekness and timidity for most of the year, come March mating season and they abruptly go wild. Mild, companionable jack hares suddenly begin snapping at one another. Some stand on their hind legs and box; others hiss, scream, grunt or click. In fighting furiously over the does, the jacks frequently bite and claw, but sometimes leap into the air as if possessed by devils. "Mad as a March hare" is no mere old wives' saying.

Yet when all is said and done, someone is sure to inquire: what good are jack rabbits? Infestations of these creatures have long plagued Western farmers. Are they merely pests? No, say ecologists who point out that hares are important as buffers between the predators and the larger, slower-breeding mammals. In other words, if there were no hares to feed on, coyotes would kill off many more of the larger game animals.

Still, there must be a better answer. Or is it only foolishness to feel a thrill when you stumble upon a big old jack rabbit with his impossibly long ears cocked your way, his nose twitching, and his kangaroo-legs braced for the bounding getaway that will leave you wondering if maybe once he really was a bird? ///





BUS TRAVELERS TRANSFER TO JEEPS TO EXPLORE BACKCOUNTRY IN MONUMENT VALLEY.

EXPLORING UTAH'S CANYONLANDS BY BUS

Raye Price



RECENTLY I returned from a 1253-mile week-long trip through some of the wildest country in America—and I didn't drive a mile (nor back-seat drive, either). I traveled in air-conditioned comfort and I slept on spring-mattresses every night. I explored country few whitemen have seen and I didn't lack fresh vegetables for a single meal.

Three ways to explore Utah's Canyonlands were suggested in *DESERT's* April, 1963, issue—guided jeep tour, tag-a-long tour and by passenger car. Now a fourth may be added. This summer, for the first time, Grayline Tours inaugurated a Canyonlands Tour. I was privileged to be aboard its "maiden voyage."

I must admit that I launched upon this trek with trepidation. Few people, even Utah residents, have covered the long, lonely loop from Salt Lake City to Dead Horse Point, Arches National Monument, Moab, the Goosenecks of San Juan, through the Navajo Reservation of Monument Valley, into Arizona's Tuba City, across the bridge of Glen Canyon Dam at Page to re-enter Utah and return to Salt Lake City via Bryce National Park. In fact, until the spring of 1963, parts of this route were without paved roads. No wonder my family raised a collective eyebrow and warned me of daily baked beans and primitive accommodations as I stuffed a case with sun lotion, drip-dry blouses, frontier pants, boots, rubber-soled shoes and a sweater and skirt.

But beans and sleeping bags weren't my only concern. I'd never traveled by bus—other than around cities on rubber-neck tours — and I wondered if there'd be other women traveling alone, like myself, and how Grayline would manage to pair us as harmonious roommates.

As it turned out, both concerns were baseless. There were almost as many women traveling alone as there were men and somehow or other passengers with mutual interests gravitated together quite naturally.

Immediately we settled into our reclining seats and sped beyond the urban fringes of Salt Lake City, taking pleasure in the fact that sagebrush doesn't grow in neat little rows like city gardens. After lunch at Greener's Book Cliff Inn, we entered country which grew progressively unbelievable. Our first really great thrill was Arches National Monument on the outskirts of Moab. Here our driver-guide explained the history and geology of its fantastic erosions and now I'll never refer to sandstone

again as "that red rock."

I regretted being without a suit when I noticed swimming pools at several motels, but our accommodating driver pulled up before a local clothing store, and I was soon splashing with the rest. Moab's motels are excellent. Private accommodations for passengers traveling alone were available at a slight additional cost.

Although the bus tour was far from rugged, opportunity existed for active outdoor exploration. Designed as a "learning" trip, qualified geologists explained the terrain and passengers were encouraged to take the mile-and-a-half climb to Delicate Arch, a guided jeep trip through primitive Monument Valley, and hikes down twisting trails in Bryce Canyon. I found frontier pants the perfect answer for clothing, with rubber-soled shoes for the slickrock climb at Delicate Arch and cowboy boots for the deep sand and sage at Monument Valley.

It soon became apparent that traveling in a congenial group such as this was a distinct advantage. Passengers developed new interest in geology, archeology, botany and history as they enjoyed the coloring of grotesque formations. In addition to information from the driver, each passenger presented something of his own to the group; one a knowledge of desert wildflowers, another a ready eye for minerals and rocks, others just plain humor.

Motel accommodation each night were excellent and, although the quality of food varied with the accessibility of the place, it was far from the baked bean diet my family had predicted. A two-night stopover at the San Juan Trading Post in Mexican Hat, Utah, added shopping fun with an exciting selection of authentic Indian jewelry, rugs, and handicrafts.

With 14 rolls of film to tell my story, I found myself using the bus trip as reconnaissance for future family vacations.

Male, female, alone, or in a group, anyone 12 years or older will delight in the Canyonlands bus trip. You must make minor sacrifices for this beauty and adventure, however. Bus travel entails handling your own luggage, so keep it light and compact. Side excursions may be hot and dusty, especially on the Monument Valley jeep trip. But, to compensate for this, Grayline does your driving, reserves your rooms, provides guides, arranges your social hours and schedules your meals. Believe me, this is the rubber-neck tour of all time!

///

WOODO

by J. E. P. Hyland, M.D.

WHEN SR. CORTES and his fellow conquistadores were making their celebrated grand circle tour of Mexico and Central America in the sixteenth century, they were aided by tribes of Indians which they had liberated from the yoke of the imperious Montezuma. These native auxiliary forces not only took an active delight in liquidating Aztecs alongside their deliverers, but showed their appreciation for the privilege by introducing to the Spaniards many of the delightful foods which grew so profusely in this great new supermarket of the New World. Tomatoes, yams, squash, avocados, cocoa, strawberries—even iguana lizards—became additions to the commissary of the army of Spain.

But the early-day *turistas*, much to the puzzlement of the Indians, drew the line at cactus-eating. Although much sought after by the natives, the Spaniards found the *peyotl* to be bitter, nausea-provoking, and, more often than not, impregnated with sand. Hardly worthy of the esteem in which it was held by the Indians and Aztecs alike.

As years are measured by the great stone sun disc of the Aztecs, the *peyotl* cactus had been used in the mysterious rites in the temple atop the truncated pyramids for a long time. It was fed to the Selected Ones, the human sacrifice. Many had been the lovely maidens who had partaken of the little dream-catcher catcus that would deaden reality and bring

mercy. *Peyotl* talked to them soothingly and quieted their fright so there would be no struggle, no anguished cry in the flame-filled night. The Plumed Serpent would be pleased.

Today, 400 years after the long obsidian knife of the Aztec priests exacted its bloody demands, the peyote cactus still plays a vital and an integral part in the life and times of the American Indian. Peyotism, as cactus-eating is called, is still widely practiced by American native populations both on and off the reservation. It is estimated that about 100,000 Indians are active users of peyote. This number, necessarily grossly inaccurate due to communication problems involved, also includes 40,000 known members of the Native American Church, a sect composed of Indians which holds the peyote cactus, due to its novel properties, to be divinely endowed with the ability to shape a man's life. It assumes the stature of a sacrament.

Peyote, the dream-catcher, grows extensively in the desert terrain of the lower Rio Grande Valley and southward into the valleys of Mexico. Completely out of character with cacti in general in that it is free of spines, the peyote has a carrot-shaped root and a small hairy nubbin which appears above the ground. It is this button which is dried and eaten. Contained in this desiccated desert confection are the alkaloids which imbue peyote with its wondrous potency.

Because of these latter strange and exotic faculties, peyote has become the center of a minor-key discord which has come to involve not only Indians and their tribal councils, but also state legislatures, religious groups, medical men, law-men, anthropologists, the American Civil Liberties Union and even the Supreme Court of the United States. Peyote was the main campaign issue in the recent election of the Tribal Council of the Navajos, a sovereign nation by treaty. The chairman of this council has a salary exceeding that of most governors of states.

Peyote is accepted by its users as an understanding friend with a living personality which enables it to talk and laugh with them. It brings visions of beauty and grandeur such as will never be experienced by mortal man. These visions are of such magnitude and power as to make the squalor and poverty of reality of no consequence. The spirit of peyote transcends all and through its use the great Manitou lets his redman have a sneak preview of paradise.

Peyotism was first introduced into the Plains region about 100 years ago, probably by marauding bands of Kiowas and Comanches who "liberated" quantities of the cactus from the Huichol Indians of old Mexico. During the ensuing years the supplies were replenished and eventually trading fairs were set up on an annual basis. The friendly spirit of peyote prevailed where once there had been bitter enmity.

In 1918 the Native American Church was established by those Indians who felt that peyote merited special consideration as an actual vessel through which the Great Spirit manifested himself to his beloved redman. Persecuted and maligned by centuries of abrasive association with

IN THE DESERT

whites, the Indian had found in peyote the instrument enabling him to accept status with true nobility. The visions inspired during the peyote ritual instill a god-like presence in his character which will forever be his tower of strength. Brotherly-love, self-reliance, a lively sense of responsibility to one's family and to his fellow man are attributes to be aspired to through peyote. Above all, only by the all-night vigil in the peyote teepee could the harassed Indian hope to resist the lure of the demon fire-water.

Cactus-eating serves as a meeting ground of ancient traditions and modern social graces for the twentieth century Indian. Visions have always been an essential part of the redman's religion. It was the custom in most tribes for the shaman, or medicine-man, to send a young warrior into the wilderness to suffer privation until such time as a vision or omen should manifest itself to him. Properly interpreted by the shaman, this sign from the Great Spirit could have a profound effect on the brave's life and his standing within the tribe. The hallucinations of peyote, (not accepted unqualifiedly by many medicine-men) are believed to be, by members of the Native American Church at least, manifestations from God.

Aldous Huxley, eminent British author, in his pursuit of the mystic, essayed to eat peyote and was profoundly moved by the exquisite visions he perceived. He says ecstatically, "The man who comes back from the 'Door In The Wall' will never be quite the same as the man who went out." This character-altering ability of peyote has been commented upon by others. A well-known anthropologist who has spent most of his career working among Indians and accordingly has been exposed to peyote and

its effect states, "It is like seeing the door of life swing open before you." The implication being that, until peyote, one's perception and sense of values are apt to be a bit myopic. The Indians themselves have naturally introspected upon their cactus-eating and they believe, "You can use peyote all your life but it will teach you things that are ever new."

While Huxley and many other non-Indians have partaken of peyote both from a scientific and thrill-seeking point of view, the true peyotist takes a jaundiced look at the curious. Off-hand participation has no place in the peyote teepee. Since the little cactus is a gift from the Great Spirit it should be afforded a commensurate respect.

The ritual of the peyotists is by no means the orgy or the running amok of the Indian which the uninformed have presumed it to be. Since the announced intent of peyotism is to foster the development of a nobler redman through morality, sobriety, chastity and right living, it would hardly seem feasible that the ceremony would in any way resemble a "reefer session."

Peyote meetings follow no fixed schedule—probably because in the past many of the tribal councils in bowing to diverse pressures have looked with disfavor on the gatherings. But the news of an upcoming ceremony travels across the reservation like a tumbleweed in a whirlwind. The word is passed guardedly, but none-the-less efficiently. The family pick-up is filled with gas. The peyote blanket is brushed and aired.

Peyote etiquettes requires that all who anticipate attending should take a pre-ritual bath at noon of the meeting day. And since peyote has a definite predisposition toward nausea, especially among the novices, it is

deemed unwise to eat or drink too freely during the hours of late afternoon and early evening.

As night falls over the desert, the spirit of peyote comes alive. Coyotes run along the clay banks sending their fey yammering into the echo chambers beyond the dunes. Sandstone monoliths which tower in a sheer rise from the floor of the desert project long shadows that mingle with wisps of fog trailing across the rising moon. Fog and shadow lose themselves in darkening canyons. Peyote talks and chuckles; redman pauses to listen. A solitary drum picks up the beat as a fire flickers hesitantly within the teepee. A late-arriving pick-up struggles up the arroya amid blowing sand; two Indians, their blankets drawn tightly about them, hurry to join those already in the dimly-lit tepee.

Protocol assigns to the peyote priest conduct of the meeting. Procedure may vary considerably in detail among the separate tribes (there are approximately 45 tribes presently practicing peyotism). As a rule there is a small altar of sorts situated in the center of the meeting place. This consists of a small fire with ashes banked into a form of a crescent. The celebrants seat themselves on the ground in a circle at the periphery. Between the horns of the crescentic fire on a garland of cedar branches lies "father peyote," a larger than usual button of the cactus selected for this place of honor because of its size.

The peyote priest, his peyote blanket draped over his shoulders and a woven basketful of peyote buttons on his lap, begins to sing. On one side of him is seated the drummer, on the other side, the peyote rattler. These two instrumentalists accompany the priest as he chants. The woven bask-

et is passed clockwise so that all may partake of peyote. Each celebrant will usually accept at least four buttons on his first orbit of the basket. Occasionally a participant is handicapped by lack of teeth. Such is the spirit of peyotism that his neighbor will gladly chew his peyote into a satisfactory bolus for him!

As the meeting progresses and after the basket has made several rounds, the drumming becomes faster, the singing more fervent. Others take their turn in the chant and it is said that under the stimulus of peyote many long-forgotten songs and traditions are reclaimed about the crescent of ashes.

Pharmacologically, peyote is primarily a depressant, but its initial ef-

fect may be mildly stimulating so that the early meeting takes on a tone of well-being. There will be a little trouble here and there with nausea. Salivation is stimulated to the point that a tin-can cuspidor is usually standard equipment for the peyotist. Mescaline, which is the most active alkaloid of the several contained in peyote, causes an increase in respiration rate so that it is not uncommon for a certain breathlessness to pervade the dark of the teepee.

As more buttons are eaten, the mild excitement of the early evening is replaced by a sense of impending solemnity. The peyotists gaze fixedly into the depths of the little fire where something seems to stir vaguely. Somnolence deepens; they draw their

blankets more tightly and the singing becomes barely audible. The house lights dim. The show is about to begin.

An objective assessment of peyote visions is futile. Indian artists have attempted to paint pictures of their hallucinations which were fantastically colored in a riot of reds, yellows, purples and other primaries. A common concept favored by several native painters was the presence of a peyote bird of gorgeous plumage dominating a landscape of prodigal coloring. Since no two visions are comparable, these artistic efforts contribute only superficially, so say the peyotists. The real vision, God's true gift, is the insight which comes with peyote.

Among the harsh words which have been slung at the peyotists, the one which they object to most is "narcotic." The definition of this word is at the root of the turmoil in which they are involved—they and the diverse agencies mentioned earlier. What really constitutes a narcotic? If one accepts that a narcotic is any substance that deranges consciousness and the normal stream of thought or intellect, then the peyotists will accept peyote as a narcotic. But let's also include alcohol, barbituates and tranquilizers, they say.

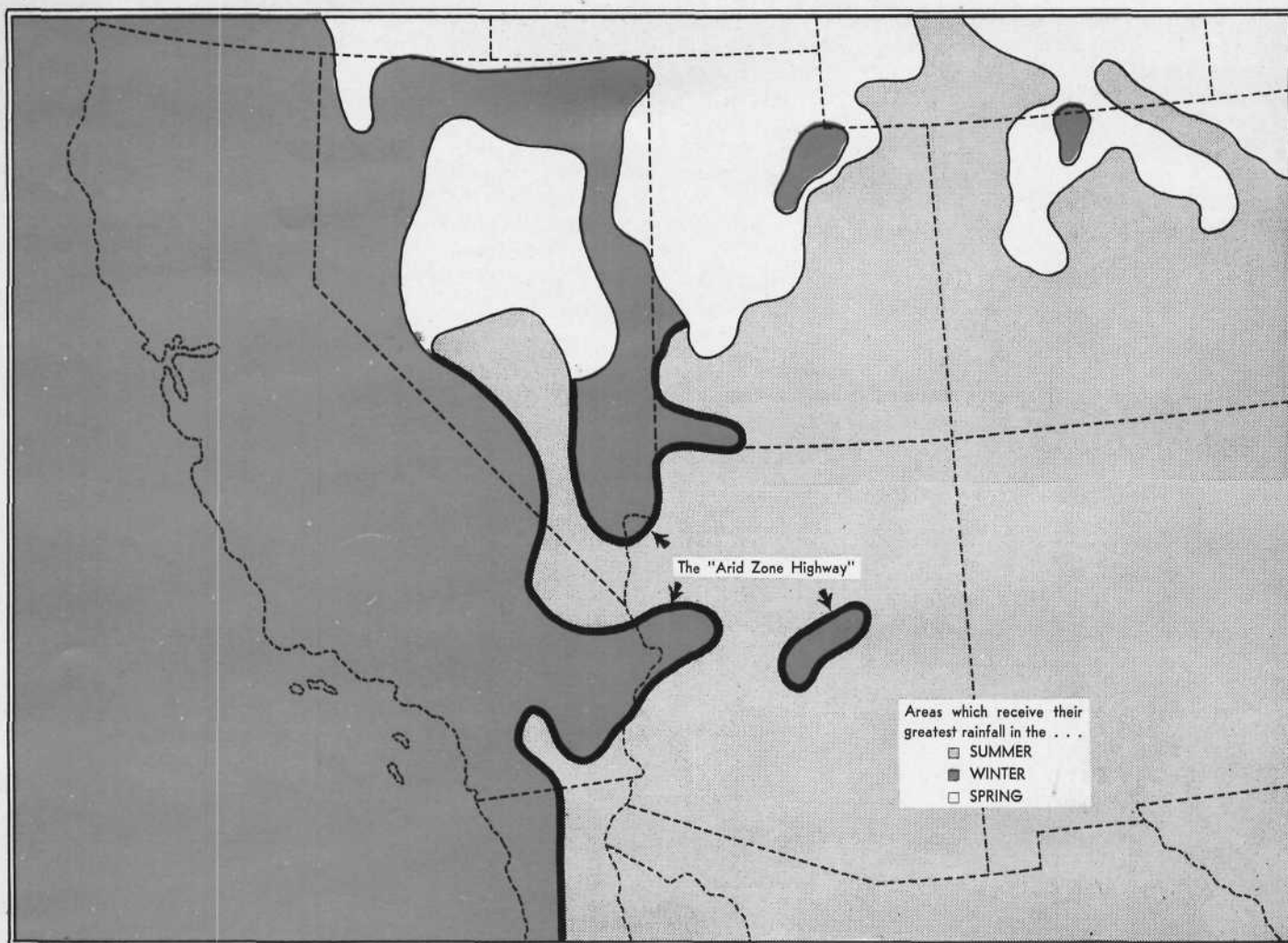
On the other hand, they reason, if a substance is non-habit forming (there are no cases of peyote addiction) and does not lead to moral decay, but rather has the opposite effect, is it still a narcotic? Increasing sentiment seems to favor the peyotists in their fight to bring proper stature to their little friend, peyote. The American Civil Liberties has held that the religious freedom of members of the Native American Church have been infringed upon by the curtailment of the use of peyote by some officials. The state of New Mexico has removed legislation from its constitution which previously had banned the use of peyote. California is contemplating similar action. Since the recent election, the Navajo Tribal Council is showing unmistakable signs of softening its attitude.

To the friendly little *peyotl* it is of no consequence. What is reality but a segment in the vast vista of time? A friend is for always. Whether it be an Aztec maiden about to have her quivering heart ripped from her young body on the high altar, or whether it be an unhappy Indian sick in his soul from the corrosion of whiteman's civilization, peyote will comfort. Who would do otherwise?

///

PEYOTE "BUTTONS" (LOPHOPHORA WILLIAMSII).





RAIN

BY ERWIN KAUPER

Author of these **DESERT** articles: "Wind—The Desert's Worst Weather" (May '61); "What's Behind the Desert Mirage" (Aug. '61); "Smog Over the Desert" (Oct. '61). Mr. Kauper is a research meteorologist with Meteorology Research, Inc., Altadena.

OVER the clicking of the Station Agent's telegraph key came the unfamiliar, but still unmistakable sound—rain was slanting against the windows. The telegraph was forgotten, for this was rain—an event long awaited at Bagdad, a station on the Santa Fe line in California's Mojave Desert.

The date: November 9, 1914.

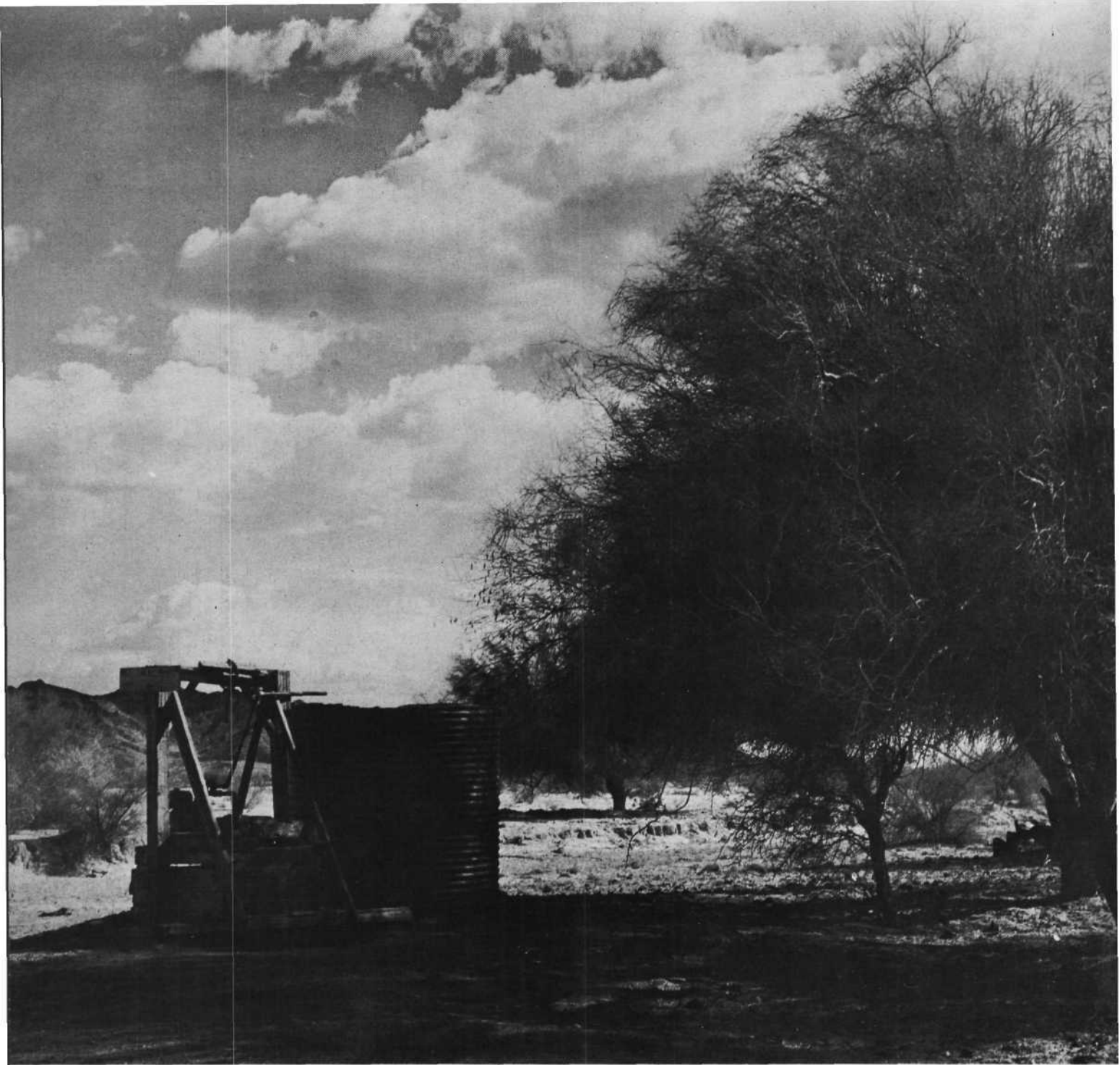
The last rain reported by this Weather Bureau cooperative observation station was a distant memory,

something that took place more than two years before. As the entry of rain was made on the records, the longest drouth in the meteorological history of the United States had come to an end.

Bagdad, California, had taken its place in the climatology books as a representative station of the dry heart of the American desert. To be sure, another site—Greenland Ranch (now Furnace Creek) in Death Valley—owns the record for the least annual U. S. precipitation, averaging 1.45

inches a year from 1911 to 1930. Bagdad, by comparison, averages 2.28 inches a year—the result of some wet years (up to 10.20 inches) combined with the record dry spell.

The Bagdad station, situated between Barstow and Needles, is no more. It survives only as a siding on the Santa Fe. But, it still lives on in the weather records and typifies the most arid zone of the desert—the point beyond the normal range of summer storms from the southeast



SUMMER STORM CLOUDS GATHER OVER WILEY'S WELL ON THE EASTERN MOHAVE DESERT.

and winter storms from the northwest. When such storms do reach the inland desert places such as Bagdad, they usually have exhausted their moisture-bearing clouds against the mountain ranges which stand between desert and sea.

The effect of the various storms may be seen in the accompanying map. Here the American desert is zoned according to the period of greatest rainfall during the course of an average year. Roughly speaking, the winter precipitation area extends inland from the Pacific to central Idaho, eastern Nevada and extreme

southeastern California. Southeast of this line is the dominion of the summer storm. Northeast is the area of yet a third type of rain pattern—that which falls mostly in the spring (about May).

The line of separation between the "winter rain" stations and "summer rain" stations marks the zone of least precipitation. (To a lesser extent this area of low rainfall extends along the boundaries of the "spring rain" patterns.) Thus, by tracing the dividing line north from Baja California, we find (much to no one's surprise) that things are especially dry in

the Borrego country, Indio and Coachella Valley, then doubling southward to Salton Sea, El Centro, northwest to Blythe, dipping in and out of Arizona, through Needles, westward through the Mojave Desert to the Bagdad area, north through Death Valley, continuing in the same direction past the Beatty-Goldfield-Tonopah country of Nevada, doubling back toward Las Vegas and then eastward into Utah's Dixie. This "highway" is rainfall's "no-man's land" in the Southwest.

The summer storms are the most spectacular of all desert weather.

Seemingly out of a clear sky the clouds spring up, towering to heights of 40,000 feet or more. Cloud droplets grow within their mother clouds until they are too heavy to be held aloft by the updrafts. Then down they come, as large wet drop or sometimes as soft hail. The resulting downpour often is too much for the parched land to absorb all at once. There is sudden run-off, and roads, bridges, powerlines and railroad tracks are washed-out. This is the substance of those news items that regularly appear in midsummer. These storms also have more subtle dangers—far-off thunderstorms that start walls of water and mud moving down watercourses. An unwary camper who thinks that he is safe because no rain has fallen on his camp in a wash is actually in danger of losing his equipment or even, as has happened, his life.

This is the dichotomy of the desert—a short-term overabundance of rain and a long-term lack of moisture—a lack that is the essential condition that both causes and characterizes a desert. If an annual average of eight inches or less is taken as an indication of a desert climate, it becomes evident that the West's arid area truly extends beyond what is commonly thought of as "desert."

The rainfall pattern clearly shows the effect of elevation on precipitation. Low level stations, such as those on the Colorado Desert and in Death Valley, have the least rainfall. High terrain invariably receives larger amounts. The "rain shadow" effect is evident—east of the Sierra Nevadas and west of the Rockies, for example. In each instance the rain-bearing winds have to pass over a high obstruction before reaching the area in question. In the case of the Sierras, the winter storms from the west are affected: while the Rockies act to dry out the moist winds from the east and south. Most of what we know as desert lies between these massive cloud-obstacles.

Two actions occur together to produce the "rain-shadow" effect. First, much of the moisture is deposited on the windward slopes due to the air being lifted and cooled to saturation. Then, as this air flows across the

mountain barrier and down the other side, it is warmed by compressional heating. Such warming causes the evaporation of any clouds that manage to move across the mountain mass. The result is a dry zone behind large mountain ranges—a "rain-shadow"—superimposed on an already arid land.

Under existing geographical and meteorological rules, the American desert will continue to exhibit its pattern of years with little rainfall inter-

persed with some almost wet years—the years of the lush wildflower displays. People will continue to live on the desert by tapping the underground waters—those natural reservoirs containing the runoff from by-gone rainstorms.

Who knows, perhaps water from Bagdad's drouth-breaking storm in November, 1914, may be moving up the pipe of some Mojave Desert well today, serving a new generation of desert dwellers. ///





ACTIVITIES FOR the entire family, ranging from rock collecting to diving for prehistoric fish, may be enjoyed in an uncrowded 56-mile stretch of the lower Colorado River between Arizona and southern Nevada.

On these waters there is year-round fishing, water skiing, boat racing or just plain lazy swimming and sunning on sandy beaches along its shores.

For the landlubber, the region abounds with abandoned mines, and the terrain is rich with geological formations, Indian petroglyphs and spectacular scenery, all accessible by passenger car.

Even though Lake Mohave is within a few hours of many crowded Southern California communities, a boater frequently has the entire lake to himself. And, for a 4-wheel driver to venture in the backcountry without first reporting his approximate destination, is an invitation to disaster. This is astonishing indeed, considering that few recreational areas of the Desert Southwest have so much to offer.

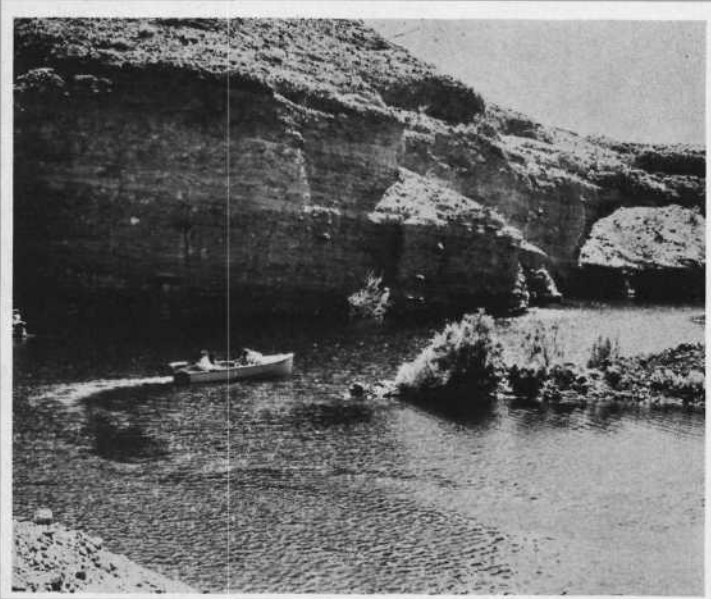
Fishermen may cast for bass, catfish and trout at the same time. Some set up two poles to avoid the bother of changing bait and lure. Whereas Lake Mead to its north is too warm for trout and Lake Havasu to the south runs generally to bass also, Lake Mohave spawns both. Water drawn from the depths of Lake Mead at Hoover Dam flows into Lake Mohave at a temperature low enough to produce a cold front which supports trout in the original deep river channel while bass play in warmer upper waters.

Besides channel catfish, bass and trout, there are also crappie, bluegill and a nearly extinct specie called the Colorado squawfish. A member of this rare family, which may weigh 100 pounds and measure 5 feet, turned up last November at Willow Beach much to the astonishment of a

sober fisherman. After much research, National Park Service naturalist Ted Whitmoyer, called upon to identify the monster, concluded that it was a relative to one taken in November, 1952. Once common to the Colorado, this giant of the minnow family provided food for prehistoric Indians who lived along its shores. Where one such fish existed, it's likely there are more, but considering the interval between catches, it might take a crew of Scuba divers to locate them. But what a challenge for fishermen!

MINES, MINNOWS and MARINAS of LAKE MOHAVE

by choral pepper



Also under Lake Mohave, and of interest to Scuba divers, are some of the finest petroglyphs ever pecked into a wall of the Colorado. A scattering



PARK RANGER JAMES SLEDWICK EXHIBITS A COLORADO SQUAWFISH, PREHISTORIC GIANT OF THE MINNOW FAMILY BELIEVED EXTINCT IN LAKE MOHAVE UNTIL REELED IN LAST NOVEMBER.

of these prehistoric Indian writings, which must have towered several hundred feet above ground level at the time they were inscribed, may still be seen above the waterline adjacent to the Arizona shore about one-half mile north of Monkey Rock.

But not all of Lake Mohave's lore is prehistoric. In 1865 Brigham Young instituted steamship travel along this route to transport goods from San Francisco via the Gulf of California and up the Colorado River. Historians hint that during troubled times with the U.S. government, a few converts found their way to Zion along this route too.

The trip was an arduous one and not always successful. Lt. J. C. Ives is believed to have attempted it first on a government assignment in 1858 to investigate the navigability of the

Colorado. His sternwheeler, the Explorer, which had been designed in Philadelphia with no knowledge of the nature of the Colorado and shipped in eight sections around the Horn to be reassembled, finally hung-up on a boulder near Black Canyon. Later, heavy ringbolts were set into the canyon wall of Black Canyon so that ships could maneuver the rapids by hooking a cable into the rings and winching themselves up or down Ringbolt Rapids near the present site of Hoover Dam.

Today's sportsmen may enter Lake Mohave at one of four resorts. The ideal way to explore this kaleidoscopic country is to begin at one resort and make a circle tour. Each one provides excellent overnight accommodations, boat rentals, paved ramps for launching, trailer parks, coffee

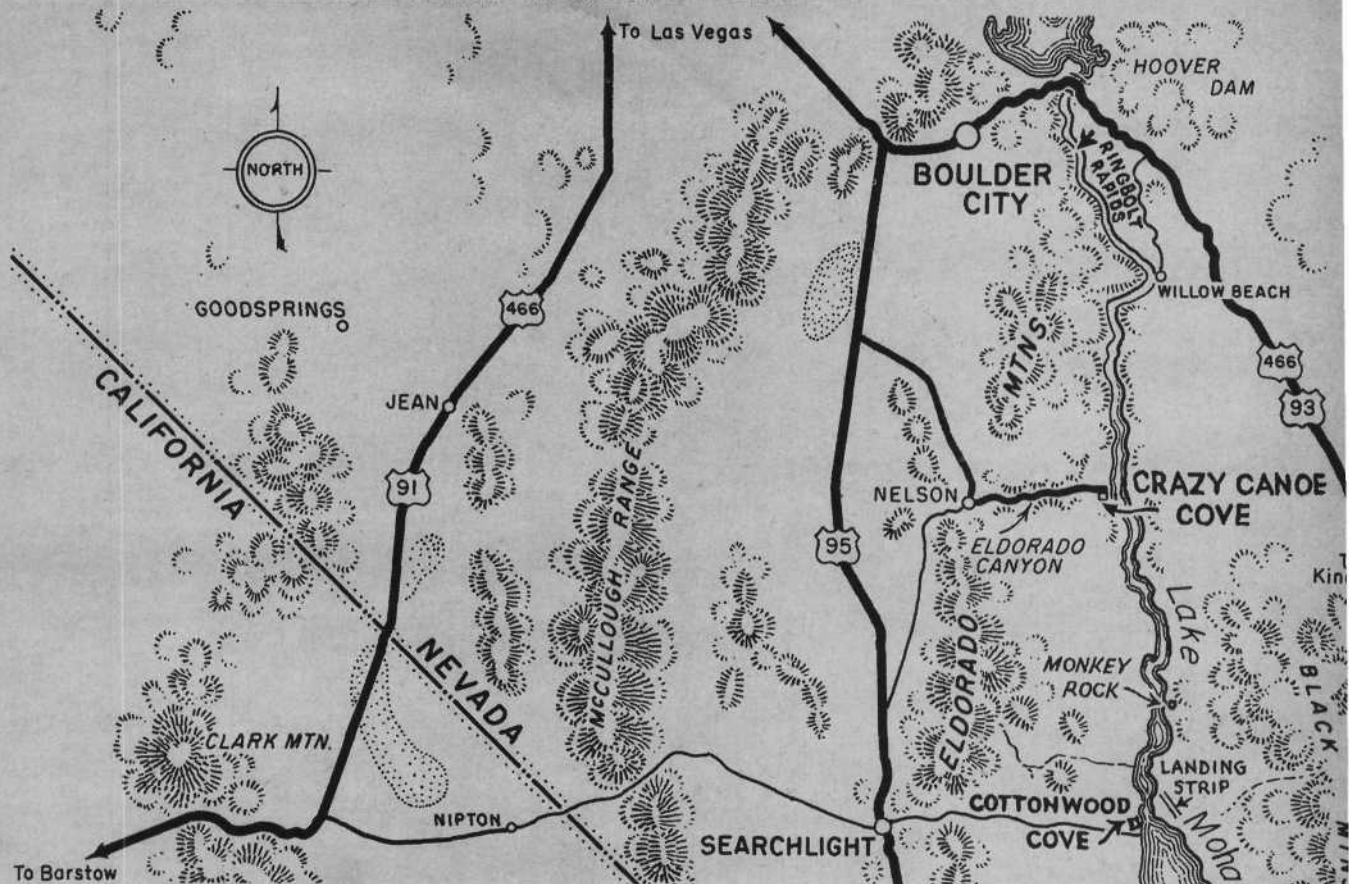
shops and mooring or permanent boat slips, should you bring your own boat. There are also secluded coves and sandy beaches for those who choose to camp.

On the Arizona side are Lake Mohave Resort at Katherine Wash near Davis Dam and Willow Creek Resort 10 miles below Hoover Dam. Nevada's two resorts are Crazy Canoe Cove near Nelson and Cottonwood Cove near Searchlight. All four fall within the Lake Mead Recreation Area and each is currently expanding and adding to present facilities.

For those gregarious ones who like lots of company, Lake Mohave Resort is a hive of activity. Two miles north of Davis Dam from Arizona paved Route 68, it is also within commuting distance of bustling Bullhead City just south of the dam. A short distance across the lake is a fine petroglyph site, Grapevine Canyon, and progressive Lake Mohave Resort manager Ham Pratt provides trips to visit it, as well as conducted rock collecting excursions. A luxurious 32-unit motel is the largest on the lake and a new restaurant and cocktail lounge is scheduled for an early opening.

Willow Beach Resort, four miles south of U.S. 93 on a paved road, is considered by many to be the finest trout area on the lake because of its proximity to the West's largest trout hatchery. Surrounding country is rugged and colorful with the Black Mountains towering above the shore. Directly in front of the resort the water widens a bit, but soon narrows into its original channel and boaters are reminded of the lower reaches of the Grand Canyon.

It is here that archeological excavations were undertaken by the National Park Service in 1936 and again in 1947-50 which produced evidence of occupancy from 250 B.C. by a Western variant of the Basketmaker II people. Other pre-ceramic and ceramic cultures were also uncovered, as this region provided an important trade link between California and the Southwest along the Mohave-Pacific trail and native ancestors to the



Mojave tribes acted as middlemen in the traffic.

In addition to stone tools and pottery, excavators dug up vertebrae of extinct fish and also found conclusive evidence that grizzly bear once frequented this desert land. Actually, this is not as surprising as it may sound. As recently as 1880 these animals were observed in the Cerbat Mountains southwest of Willow Beach.

Accommodations for 50 trailers, with all facilities, are available and there is also a public campground. Managed by Earl Gilmore, a modern 40-unit motel is under construction, with six units already completed.

Crazy Canoe Cove, formerly known as Murl Emery's Eldorado Landing, is now leased by Glen Massey. This was the first of the resorts to have cabins for rent and although they are not new, they are comfortable. Elaborate plans for expansion are expected to be undertaken soon.

Nineteen miles from U.S. 95 through Nelson, Crazy Canoe Cove lies on the fringe of some of the most exciting mining country in Nevada. Three-and-a-half million dollars in gold was removed from the Techatticup mine alone. Other Eldorado Canyon mines, among them the Wall Street, Crown Queen, Sphinx, Jubi-

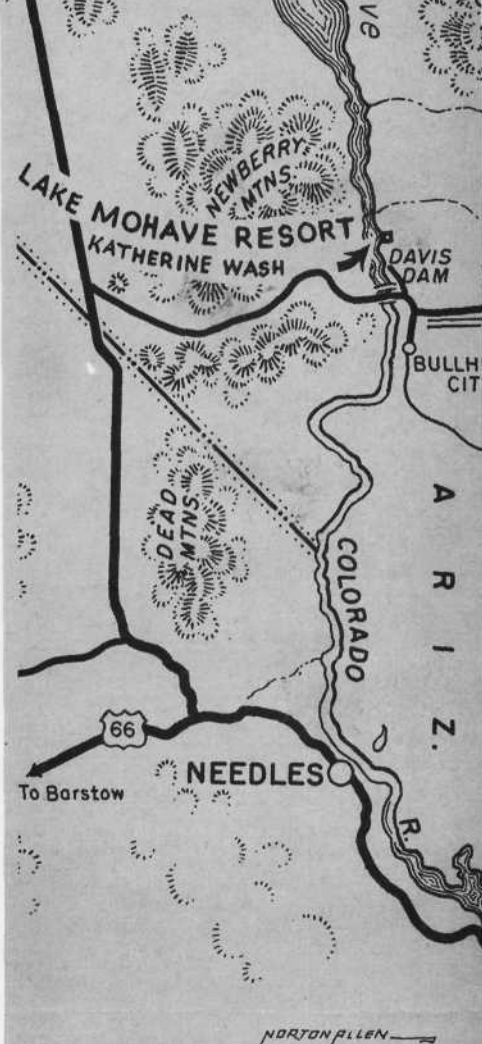
lee and Knob Hill, produced many millions more.

Not content with the gold and silver taken from their mines, these early prospectors cast avaricious eyes toward the Colorado River. What myriads of gold might lurk in its depths! So, in about 1909 they anchored a \$185,000 dredge in Eldorado Canyon to recover placer gold. Luck eluded the endeavor, however, and a year later, the dredge was swamped by a flood.

Although it is commonly believed that soldiers from Ft. Mohave first discovered the gold veins of Eldorado Canyon in 1859, *arrastras* found in the canyon indicate that these deposits had been worked by Spaniards long before that. A persistent story supporting this theory is that in the early 1860's, after prospectors began to move in, a well-equipped party from Mexico came up the Colorado carrying a map which led them straight to the Techatticup mine, which was already being worked. The Mexicans revealed that they'd found the map in Mexico where it had presumably been left by a party of Spanish explorers in the late 1700s—a century before the mine's discovery by Ft. Mohave soldiers.

The other Nevada resort lies at

continued on page 31





WHILE GHOST-CHASERS concentrate on the ruins of old mining towns and camps, we head straight for their abandoned dumps.

Recently my husband and I returned from a visit to Virginia City, a picturesque Nevada mining town that never quite made it as a "ghost town." Considering the city's glorious antique mansions and historic landmarks, it might seem curious that we chose to spend our time at the city dump, but it isn't quite as crazy as it sounds. Within six hours my husband dug up \$100 worth of bottles.

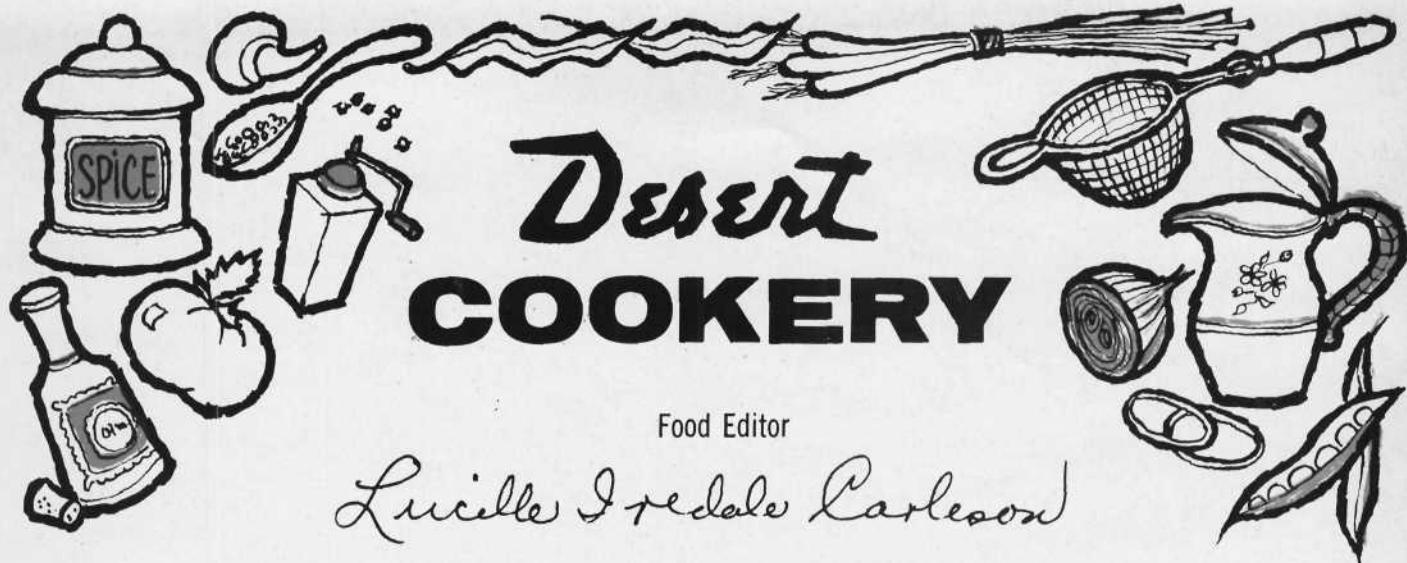
Since then, we've spent practically every weekend probing the ruins of old mining camps and ghost towns—for fun as well as profit. Although values vary, any type bottle is precious so long as it dates back to the pioneer or gold rush period. Bitters and patent medicine bottles, however, bring the greatest rewards.

Sun-tinted purple bottles are always a delight to find. The fact that they have changed color proves they are old. Manganese in the glass formula, when exposed to ultra-violet rays of the sun, causes glass to turn a lovely amethyst. Around 1912, during the first world war in Europe, the use of manganese was discontinued so most glass turning purple today was made before that date.

In Providence, California, we found many deep purple bottles in a nearby gully. Evidently they had lain there since the town's heyday of 1889. Providence is nestled in the Providence Mountains just a few miles above Mitchell's Caverns off Route 66 and is the only location where we've found no evidence of previous diggers. Many of the bottles we found there were just lying around. But don't sell a bottle short if it isn't purple. We found some lovely olive green wine bottles which are quite valuable. These all have a very high "kick-up" (false bottom).

Most of the old bottles which we unearth that are still clear, turn purple in a few months when put up on the roof. We have noticed that some turn more quickly than others.

The value set upon these old bottles and jars depends upon how badly a buyer, or collector, wants them. For example, a friend of mine found several old Mason jars under the floorboards of an abandoned mountain shack. After four months on her roof, they had turned a lovely purple, and sold for \$3.50 each. Don't laugh; I considered myself lucky to be able to



Desert COOKERY

Food Editor

Lucille Iredale Carlson

August is the time for one-dish meals and casseroles. Some of these may be prepared in the morning, then popped into the oven for a half-hour to heat before dinner.

CHICKEN-WALNUT CASSEROLE

- 3 cups cooked rice
- 1/2 cup stuffed olives, chopped
- 1/2 cup walnuts, cut up
- 2 cups cooked chicken, cut in large pieces.
- 1 can cream-of-mushroom soup
- 1 cup chicken broth

Combine olives and nuts, and toss lightly. Place half of mixture in a greased casserole (1-1/2 quart size). Combine chicken and soup, spoon half over rice. Add remaining rice mixture. Top with remaining chicken mixture. Add broth. Bake, covered at 350 degrees for one hour. Serves 6.

CORNEB-BEEF CASSEROLE

- 1 can cream of celery soup
- 1-3/4 cups hot water
- 1 cup canned green beans
- 1 - 12 oz. can corned-beef, coarsely chopped
- 1-1/3 cups precooked rice

Mix soup and hot water, add green beans. Pour half into a 1-1/2 quart greased casserole. Arrange corned-beef over top. Sprinkle with rice. Pour in remaining soup mixture. Cover and cook for 10 minutes in 375 degree oven. Stir mixture gently. You may spread sliced blanched almonds over the top if desired. Return to oven and bake uncovered 30 minutes longer. Serves 4 to 6.

CHICKEN à la PARIS

- 4 large or 6 small chicken breasts
- 1 can mushroom soup
- 1 small can broiled mushrooms
- 1 cup commercial sour cream
- 1/2 cup cooking sherry

Place breasts in shallow baking pan. Combine remaining ingredients and pour over. Sprinkle with paprika. Bake at 350 degrees for 1 to 1-1/2 hours. Serves 4 to 6.

CAREFREE CASSEROLE

- 4 deviled or sliced hard-boiled eggs
- 1/3 cup chopped onion
- 1/4 cup butter
- 1 can peas
- 1-1/2 cups liquid from peas (if necessary, add water to make 1-1/2 cups)
- 1/2 teaspoon salt
- 1-1/3 cups minute rice
- 4 slices cheese
- 1/4 lb. ham or luncheon meat

Lightly brown onion in butter. Add liquid, peas and salt. Bring to boil. Stir in rice and cover. Remove from heat and let stand 5 minutes. Cut meat into strips and arrange on rice, which has been placed in greased shallow baking dish. Top with deviled or sliced hard-boiled eggs and cheese slices. Put under broiler until cheese melts. Serves 4.

TUNA OVER MUFFINS

- 1 small onion
- 2 tablespoons butter
- 1 can tuna
- 1 can tomato soup
- 1/2 teaspoon salt
- 1/4 teaspoon pepper
- 1 teaspoon lemon juice
- 1/4 teaspoon basil
- 1/4 cup water
- 2 hard-cooked eggs

Chop onions and cook in butter until limp. Add drained tuna, tomato soup and other ingredients. Cook several minutes, or until bubbly. Pour over toasted English muffins and cover with slices of hard-cooked eggs.

SPINACH CASSEROLE

Cook 3/4 package noodles and 2 packages of frozen spinach, separately. Make white sauce of 3 tablespoons butter, 2 tablespoons flour, 1/2 teaspoon paprika, pinch of pepper, 1 cup milk. Grate 1/2 lb. Swiss cheese (no other cheese gives this the same flavor). Add salt.

Butter flat casserole or baking dish and put in layers of noodles, spinach in white sauce, and cheese, in that order. Bake 15 minutes in 400 oven. This may be prepared ahead and is much better than it sounds.

continued on page 29

NOW! YOU CAN OWN A VALUABLE LOT IN A CHOICE SUBDIVISION!

Just \$10 down and \$10 per month for choice property only 5 minutes drive from down-town

LAS VEGAS

VEGAS VIEW — The real estate with skyrocketing value



\$10. DOWN
\$10.00 per Month
\$995 FULL PRICE

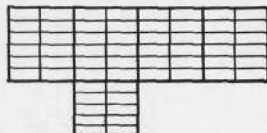


You can now take advantage of the fabulous business boom in the Las Vegas area. Here gains in real estate activity outstripped all other parts of the nation during 1962 with a spectacular jump of nearly 100 per cent in sales volume — this trend and the trend in retail sales and other business activity has continued to soar upward during 1961 and 1962.

Both fun and profit can be yours...Bask in the desert sun...Ski at 11,910 foot Mt. Charleston...Boat, swim and fish at giant Lake Mead. These water and snow-fun areas are within a 30-minute drive of VEGAS VIEW.

Vegas View lots are free of city taxes but adjacent to the present Las Vegas city limits — totally unlike much of the barren land sold today in remote desert and swamp areas of doubtful future. The lots now have graded streets and electricity on the East and West boundaries of the subdivision. Never again will sites with such a potential increase in value be offered at these low, low prices. Comparable lots in Las Vegas are now selling for many hundreds of dollars more. In VEGAS VIEW just \$10 will start you on your way to early future profits! Total cost of these 50' x 100' sites is only \$995 plus the low interest included in monthly payments. You must act NOW to take advantage of this opportunity of a lifetime. Remember — only a very limited number of these choice sites are available.

LAND, INC.



130 LAS VEGAS BLVD. SOUTH, LAS VEGAS, NEVADA



JUST
2½
MILES FROM
DOWNTOWN
LAS VEGAS

MAIL THIS COUPON TODAY!

LAND, INC., 130 LAS VEGAS BOULEVARD SOUTH
Dept. (DM-5) LAS VEGAS, NEVADA

I wish to purchase _____ site(s) in VEGAS VIEW and have enclosed \$10.00 as a deposit on each site. If for any reason I am not satisfied, I understand that my deposit will be returned to me immediately if I notify you within 30 days. Please RUSH brochure and sales contract to me today.

NAME _____
ADDRESS _____
CITY _____ STATE _____

Desert COOKERY

continued from page 27

LAMB *a la* QUEEN

- 4 tablespoons butter
 - 1/2 lb. fresh or canned mushrooms, sliced.
 - 2 tablespoons flour
 - 1 cup chicken stock (may be made from bouillon cubes)
 - 1 cup milk
 - Salt and pepper
 - 2 egg yolks
 - 1 cup cream
 - 3/4 cup cubed left-over lamb roast
 - 2 or 3 tablespoons sherry wine
- May be garnished with hard-cooked egg slices, baby artichokes or slices of avocado

Melt butter, add mushrooms and cook gently until lightly browned. Lift out of butter. Blend flour into butter off the stove. Stir in milk and chicken stock over low heat or in double-boiler until it starts to thicken. Add salt and pepper. Beat egg yolks and stir the cream into them. Add to the sauce and cook until it is thickened. Add lamb and mushrooms. Keep hot over hot water or low heat until ready to serve. Just before serving, add the sherry. This is attractive served in a chafing dish with the garnishes placed over the top.

RICE STROGANOFF

- 1-1/2 lbs. boneless beef chuck cut in thin slices
- 1 small can mushrooms
- 1/4 cup butter or margarine
- 1 envelope onion soup mix
- 4 cups water
- 3/4 cups uncooked rice
- 1/2 cup sour cream
- 2 teaspoons paprika
- 1/3 teaspoon garlic salt
- Salt and pepper to taste

Saute beef slices and drained mushrooms in butter until browned on all sides. Blend in soup mix, and 2-1/2 cups water. Cover and cook over low heat until meat is almost tender, about 40 minutes. Stir in rice and remaining 1-1/2 cups water, and bring to boil. Stir. Cover and simmer over low heat for 20 minutes. Stir in sour cream, paprika, and garlic salt. Salt and pepper to taste. 6 servings.

CORNBEEF MOLD

- 1 tablespoon unflavored gelatin
- 1/4 cup cold water
- 1-1/2 cups tomato juice
- 1 tablespoon lemon juice
- 1/2 teaspoon salt
- 1 - 12 oz. can corned-beef
- 3 hard-boiled eggs, chopped
- 1/2 cup chopped cucumber
- 2 cups chopped celery
- 1 tablespoon minced onion
- 3/4 cup salad dressing

Soak gelatin in water until dissolved. Heat tomato juice, add gelatin, lemon juice and salt. Chill until almost set. Add rest of ingredients. Pour in mold or pan and refrigerate. Serve on lettuce, with slices of tomato to garnish.

HAM-BEAN CASSEROLE

- 1 can green beans, (or 1 package frozen).
- 1 large can mushrooms
- 1/4 cup butter
- 1/3 cup sifted flour
- 2 cups milk
- 1 cup cream or canned milk
- 1 teaspoon salt
- Dash of pepper
- 3 cups cooked ham, cut in strips
- Grated cheese for top

Saute mushrooms in butter for 5 minutes. Save a few mushrooms to garnish top. Blend flour into butter and mushrooms. Add milk, cream, salt and pepper and cook over low heat until thickened. Add beans and ham. Mix and place in greased 2 qt. casserole. Top with reserved mushrooms. Sprinkle with grated cheese. Bake in 350 degree oven for 20 minutes. 8 servings This may be prepared ahead of time, but if very cold allow 30 minutes baking time.

TUNA-CASHEW CASSEROLE

- 1 - 3 oz. jar chow-mein noodles
- 1 can cream-of-mushroom soup
- 1/2 cup water
- 1 can chunk-style tuna
- 1/4 lb. cashew nuts
- 1 cup finely cut celery
- 1/4 cup minced onion
- Dash of pepper

Combine all but 1/2 cup of noodles. Place in casserole, sprinkle remaining noodles over top. Bake 40 minutes in 325 degree oven. Serves 5 or 6. This is very good made with left-over chicken or turkey.



"JUST HORSES" STATIONERY

60 sheets — 7 1/2"x10 1/4" personal size — 4 delightful illustrations of "Just Horses" in full color by Bob Lorenz — 50 illustrated sheets plus 10 blank of white rippled writing paper with 50 matching envelopes — plus a 7"x10" full color framing print of a sorrel Quarter Horse — all beautifully boxed! \$3.00 per box — postage paid — immediate delivery — money back guarantee! Send today for catalog showing western framing prints, stationery, notes, and desert Christmas cards.

THE LAZY RL RANCH

DRAWER 1500-D
BOULDER, COLORADO

SPECIALISTS In Desert Land In ARIZONA

Write To Tell Us
What You Have Been
Looking For

HELMICH INVESTMENT CORPORATION
601 Luhrs Bldg., Phoenix, Arizona
ALpine 3-0713



HICKORY FARMS OF OHIO "BEEF STICK"

"No Pepper"
"No Garlic"
"No Vinegar"
"No Pork"

• FOR SPORTSMEN •

A MUST for Fishing, Hunting, Camping, Picnics, Boating, Packing Trips — Because of its long lasting freshness—will keep without refrigeration.

Guarantee of Satisfaction
and Safe Delivery

No Charge for Mailing

100% Pure Beef

Hickory Farms of Ohio
Western Division

P. O. Box 3306, Van Nuys, Cal.

Approx. 4 lb. beef sticks are \$5.98 ea. including all packing and mailing. Send check or money order.

Please ship me Beef Sticks at \$5.98 ea.
New Customer Old Customer

To: _____

"GOLD MEDAL AWARD WINNER"



DO YOU realize, when you settle down on a chaise to enjoy the noonday sun, that what you're really doing is bombarding your skin cells with the sun's invisible ultra-violet rays which three or four hours later will cause a coagulation of the albumen in the skin cells, thereby producing certain toxins which, when absorbed, might cause sun-shock?

In other words, you're getting sun-burned.

The beneficial effects of sunlight on men and animals has been a subject for scientific exploration since 1845 when famed English physician Dr. Jonathan Pereira noticed that sunlight differed from other forms of light and attributed its beneficial effects to some peculiar quality in the sun's radiation. Today the "why and wherefore" of suntanning is just beginning to be understood.

A newcomer to the desert tries to hurry-up a coat of tan, and what happens? His dead-white city skin turns red and mottled from excessive infra-red rays of the visible sun spectrum. But this is only the beginning. Lingering and more serious results show up later when the sun's invisible ultra-violet rays begin to take effect. Then the victim suffers from blisters, sun-shock, itching, burning pain, peeling and sometimes infection.

However, this needn't happen. Slow, progressive exposure will produce a safe, golden coat of tan. Melanin, the pigmenting material responsible for the dark skin color of the black races, builds up in the deeper layers of the epidermis and acts as a protective screen to shut out further action by ultra-violet rays. After a thorough coat of tan has been acquired, any subsequent action of the sunlight is mostly that of less harmful infra-red rays, but over-exposure

will still damage the epidermis, causing inflammation or blisters which could lead to infection.

Sometimes persons living in the tropics develop a "tropical pallor." This accompanies exposure to sunlight in a humid climate where the air is constantly moist and the skin covered with a film of perspiration.

Some striking experiments have been made that show that this film is an effective protection against much of the ultra-violet. A small amount of perspiration was placed between two thin plates of quartz, a substance transparent to ultra-violet, and the plates fastened to the inside of a subject's arm. After a few hours of exposure the effects of sunburn showed in all the exposed area except that protected by the film of perspiration. Nevertheless, it's possible to receive a bad case of sunburn even on a cloudy day with over-exposure or in a dry wind; in the latter instance the wind dries the skin rapidly and protection afforded by perspiration is nullified.

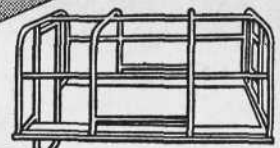
Reflected sun's rays from water or sand also contribute to burning action, so the protection of a sun shade may not be protection at all.

Three Easy Steps

To acquire a healthy, attractive suntan, it's necessary to follow three easy steps:

1. Avoid hours when the sun's rays are most intense and plan your sun-bathing before 11:00 a.m. or after 2:00 p.m.
2. Individuals vary in their ability to tan, so it's safest for blonds to begin with only a few minutes exposure each day until the skin becomes sun-conditioned. At the most, 20-minutes exposure each day is enough for anyone and a suntan preparation containing lanolin or other rich emollients is advisable.

3. Select a suntan preparation geared to suit your own particular activity. Dark complexioned people might prefer an oil in liquid or spray form while sun-sensitive blonds prefer a cream or lotion. If you're swimming, skiing, or skin-diving, a cream preparation is most desirable. If you fish, golf or garden, it is desirable to apply special products designed to protect lips, nose, ears — or bald spot — in addition to your preferred lotion or cream



MACDONALD'S Camper Kit Co.

YOU CAN EASILY turn our kit into a complete, professional looking, well-built camper in just a few hours with simple hand tools. (Or complete line for the man who wants one assembled).

STRONG STEEL TUBING framework and beautiful heavy aluminum cover, scored for strength. Extremely light.

FEATURES LARGE WINDOWS and rear door; wide range of optional equipment and accessories to further enhance your camper.

Write or visit one of our 12 western plants:

Macdonald Camper Kit Co.

EL MONTE 11015 E. Rush	SAN JOSE 1070 Elm	EL CAJON 501 Wile
HAYWARD 82 W. Jackson	VENTURA 181 West Main	OGDEN, UTAH 185 West 12th
SACRAMENTO 4865 Pasadena	EAST MESA, ARIZ. 9643 Apache Trail	
PORTLAND, ORE. 9215 SE 82nd	FRESNO 1525 Blackstone	
PUYALLUP, WASH. 207 Jovita N.E.	TUCSON 4952 Casa Grande Hwy.	

EXPLORE UNDERGROUND

Years ahead METROTECH transistor locators. Detect gold, silver, coins and relics.

Write for free information to
Underground Explorations,
Box 793, Dept. 3A
Menlo Park, California

A HOBBY THAT PAYS

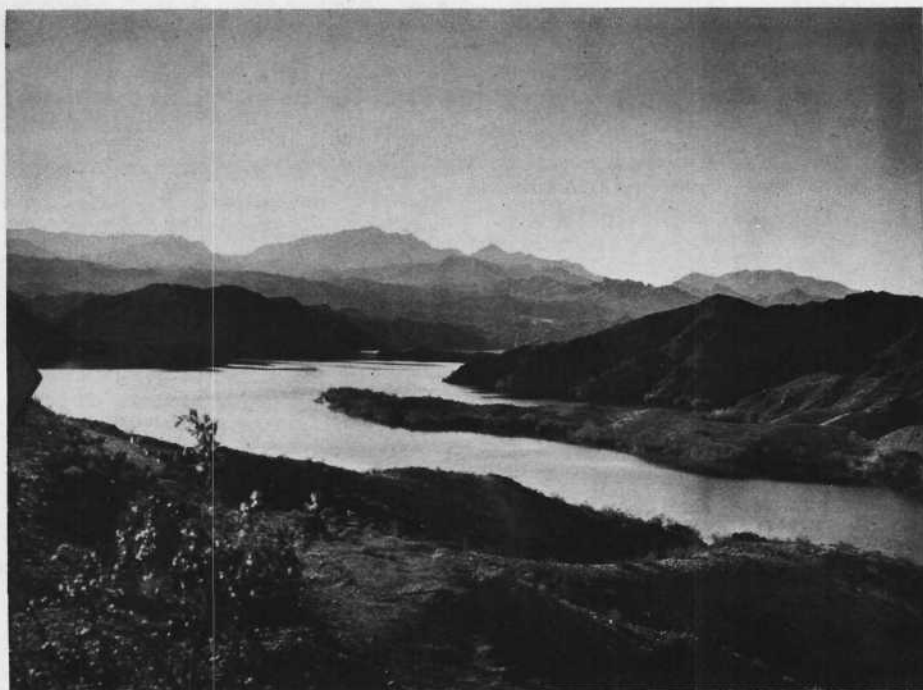
KENT FROST CANYONLANDS JEEP TOURS

The Famous Utah Needles Country, Salt Creek, Angel Arch, Castle Arch. Historical Mormon Trail of 1880, Lake Powell Shore Line Area, Canyonlands Country: Including Land of Standing Rocks, Grand View Point, Upheaval Dome and Monument Canyon.

\$25 per day per person

For further information and reservations write:

Kent and Fern Frost, Canyonlands Tours
295 Blue Mt. Drive Monticello, Utah
Phone 587-2787



BACKED UP BY DAVIS DAM THE COLORADO RIVER FORMS LAKE MOHAVE WHICH ABOUNDS IN PEACEFUL COVES IDEAL FOR WATER SPORTS AND CAMPING.

LAKE MOHAVE

continued from page 25

the end of 15 miles of paved road east of Searchlight. Cottonwood Cove, the oasis its name implies, has recently been purchased by Gordon and Gail Colton, as fascinating a couple as you'll ever meet.

Gordon is the third generation heir to the discoverer of Searchlight and its richest mine. It was from him that we learned the true story about how the once thriving city received its name.

Back around 1895, while an Indian renegade named Queho terrorized the region, Gordon's grandfather was en route, alone, to nudge in on a gold find at Superstition Mountain. As the sun sank below the range, he glimpsed the crippled Queho silhouetted against the sky. Colton dived behind a rock and hardly moved for the entire night. When he did, it was to stealthily light his pipe. As the match flickered against his craggy shelter, he noticed a sparkle of gold in the rock. With the dawn, his suspicion was confirmed. It *was* gold! The box of matches in his hand carried the brand name "Searchlight." Thus a gold town was christened and born.

Cottonwood Cove is located on the shore of the broadest portion of Lake Mohave. In a jewel-box setting, its blue water sparkles amid a circle of golden mountains. Full-grown cottonwood and elm trees line the gently sloping avenues of the trailer park and a well-equipped Marina with

slips for 125 boats lies at the base of the hill. The Coltons currently have 27 trailers available for overnight rentals and 125 permanent trailer sites. However, plans for a luxurious motel and other expanded facilities are approved and soon will be under construction. Free public campgrounds with water are nearby.

Rates for facilities, including accommodations and boat rentals, must be approved by the Lake Mead National Recreation Area for all four resorts and are nominal.

Unlike Lake Mead, with its extreme fluctuations of water level, Lake Mohave remains fairly constant. The water is clearer than other Colorado Lakes, as the silt is trapped above, and visibility for Scuba diving is exceptional. Depths range to several hundred feet.

Strong winds rise without warning, but steep mountains along the shoreline give protection and in most sections of this long narrow lake there are safe shores easy to reach. Any size boat or cruiser which may be launched from a trailer will comfortably navigate Lake Mohave.

Each habitue of this lake swears by own special fishing hole, just as he swears by the merits of his own favorite resort. A leisurely trip with an overnight stop at each marina is the best way to discover the magic of many-faceted Lake Mohave. Then, on return trips, you'll gravitate naturally to the resort with characteristics best suited to your own vacation ideas. ///

GET LOST

in the high country
IN A
**DATSUN
PATROL**
4 WHEEL DRIVE



Find the fun of remote hunting & fishing spots that this big, tough, powerful 4-wheel drive will take you.



Powerful 135 h.p. waterproof engine climbs up to 65% grades. For added power, transfer case gives 2 or 4 wheel drive in any gear.



Big room for 7 adults. Available with a weather-tight, lockable hardtop or soft top. Give it a work-out and discover why the Datsun Patrol is the World's Most Advance Design 4-wheel Drive Vehicle.

SEE YOUR DEALER TODAY
or mail coupon for dealer name:

Nissan Motor Corp. in U.S.A., Dept. 8 DM
137 E. Alondra Blvd., Gardena, Calif.
Send information on Datsun Patrol

Name _____

Address _____

City _____ State _____

Attn. Car Dealers: write for Franchise Info.

BOTTLE BONANZA

continued from page 26

buy one at that price. In the antique shops they are priced as high as \$8.

Bitters bottles, historical flasks, and patent medicines bring the best prices. The bitters, depending upon manufacturers, range from \$4 to \$10. A rectangular, light green bottle embossed "Dr. Flint's Quaker Bitters," Providence, R. I. costs \$10. These are quite rare. More common are "Lash's Bitters" or "Hostetter's Bitters" which sell for \$3 or \$4. We have two "Drake's Plantation X Bitters" bottles in the shape of a tall log cabin which are dated 1862 and valued from \$10-\$15 in the West, although they are more reasonable in the East.

It's interesting to note all the different cures these medicines were supposed to bring about—"Sure Cure for Catarrh," "Kickapoo Indian Cough Cure," "W. M. Johnson's Sure-Cure for all Malarial Diseases!" This abundance of patent medicine bottles reflects the early mining camps' shortage of doctors. That these medicines were liberally laced with alcohol added to their popularity.

There are people who collect only Bitters bottles, and if you check *DESERT's* Trading Post classifieds, occasionally there are "wanted to buy" ads which provide a market for your duplicate bottles. The lowly bottle is entering its heyday of popularity. There's something very appealing about an old glass container that filled a particular need of the wonderful breed of people of that era. An old "Folgers Extract" bottle can help you visualize the women of that day, cooking by campfire alongside a wagon train. Folgers makes coffee now, but at that time it packaged spices and extracts. The prevalence of crockery ale bottles, also wines and whiskey, gives us an insight into the hard working, hard drinking men of those days. Most of the time it was easier to obtain alcohol than pure water. The old soda and gingerale bottles were made with rounded bottoms to insure their being stored on their sides. That way the corks were kept damp. If they dried out, the corks would shrink, and the effervescence escape. This is one version. We ran into an old-timer at Rhyolite who said he once found some of these bottles still crated, and they were standing straight up. So, you can see, it's things like these that make the study of old bottles so interesting. (These bottles, by the way, sell for about \$1.50, and are usually marked "Belfast" or "Dublin.")

Near White Hill, Arizona, we found an interesting

little cobalt blue bottle marked "Owl Poison." Since poison bottles are quite rare, I couldn't believe our luck! Poison bottles were usually three or six-sided, and some had very prickly-pointed stoppers.

You're probably wondering where to find these marvelous treasures. Well, you've got to dig. We've found that wherever an old mine or mining town existed, there are dumps—sometimes two or three, depending upon the population. It isn't only in the West that you'll be able to dig, either. We correspond with an old gentleman in Ohio who has found some remarkable bottles within a few miles of his home. Wherever you see rusty old tin cans with soldered sides, you can be sure that in this same general area there will be old glass, too. If you are lucky, you will find unbroken bottles. We've found digging along obsolete railroad tracks very profitable. Look for evidence of a laborers' camp, and dig there. This tact has netted us some wonderful bottles, some with Chinese lettering on them. Dig around abandoned shacks (especially in their back yards) or in gullies adjacent to old dwellings. Remember, they didn't have to be neat in those days.

The important thing to remember is that you'll have to dig. Most of the bottles that were lying around on the ground were picked up long ago. For every whole bottle you find, there'll be a hundred broken ones. But finding that single unbroken one can give you a satisfaction you won't believe. It's a thrilling thought that the bottle you hold in your hand may have come by ship around the horn to San Francisco, traveled inland by freight wagon, and is still in one piece.

Your digging will produce all kinds of little side-products—buttons, stove-lids, rusty guns, iron kettles, tableware, and whatever else a boom-town family may have tossed away. Once we dug up six lovely hand-painted glass buttons. There were certainly no ball point pens in those days, evidenced by the many inkwells, some already purple, and in both plain and fancy types. Near Oatman, Arizona, we found crockery inkwells and several military buttons.

Think twice before you get into this hobby. There's something about digging-up that first bottle that "hooks" you—and there's no place to go for a cure. It's a disease as bad as gold fever.

For Mother's Day, my son gave me a bright new shovel, and I couldn't have been happier. If you want an exciting hobby with fresh air, sunshine, and good healthy exercise, look no further. This is it. Happy Hunting! ///

Don't Let Tires Rot Away!

USE ON...

MOBILE HOMES
BOAT TRAILERS
TRUCK CAMPERS
HEAVY EQUIPMENT
CAMP TRAILERS
FIRE TRUCKS

LIQUID NEOPRENE SAVES RUBBER

APPLICATION: brush it on.
CURING: air-dries, 5 to 15 minutes.
COLOR: dull black
FLEXIBILITY: excellent. Stretches with tire.
RESISTENCE to gas, oil, ozone, sunlight: excellent
COVERAGE: one quart 4 to 8 tires.

TIRE STORAGE

Fills small cracks and checks, leaves a smooth, natural-looking appearance, preserves rubber up to year against cracking, ozone-damage, dry-checking, weathering. Reduces tire replacement costs.



SEND CHECK OR MONEY ORDER TO:

AUTO-VACATION PRODUCTS, P. O. BOX 276,
SAN DIMAS, CALIF.
QUART: \$3.95 PLUS FREIGHT. SORRY—NO C.O.D.

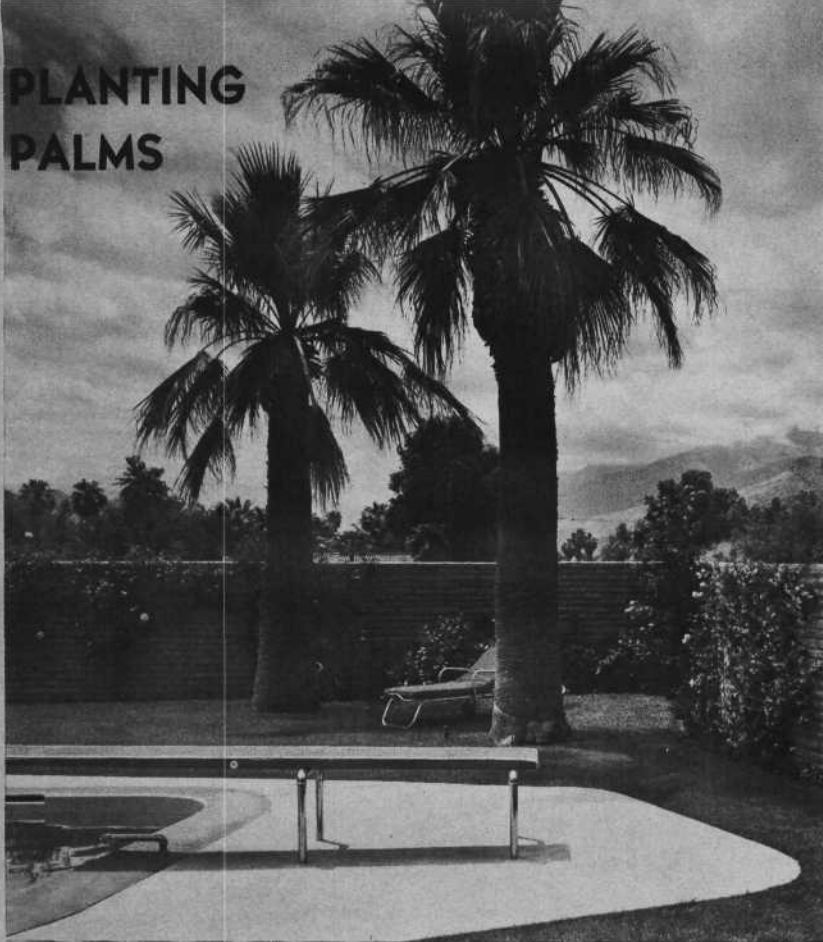
NAME: _____

STREET ADDRESS: _____

CITY: _____ STATE: _____ (CODE) _____

RETURN IN 7 DAYS IF NOT SATISFIED.

PLANTING PALMS



EXACTLY OPPOSITE from most tree families, palms transplant best during hot summer months. If you are planning to move a palm into your yard, now is the time.

This seeming contrariness is due to two very good reasons. One, when you cut a palm root, it usually dies. New roots are formed at the crown. And secondly, palms do not grow new roots during cool winter months.

From May to September, palm root growth is at its maximum, although the most successful results often occur during the hottest part of the summer, providing the tree receives plenty of water.

Palms as a group are easily moved, even by amateur gardeners. A large root ball—the larger the better—will insure obtaining as many existing feeding roots as possible and will also lower the center of gravity of the tree to give stability in wind and weather. Four-foot balls are recommended on all large palms.

After lowering the palm into the hole, set it a few inches deeper than formerly to encourage new root growth. Then shovel in good soil and compact it. The bottom of the hole should have at least a foot of peat, leaf mold or rotted manure.

Water, especially in the hot months, is all-important and the hose should be allowed to run in the irrigation depression with a stream of water

about the size of a drinking straw for about eight hours at least twice a week during the first few months. Subsequently the palms should get a deep irrigation at least once a week during the warmer months. Tying the fronds vertically will protect the bud for the first two or three months.

Palms average about a foot of growth each year—an 8-inch tree in a gallon can will reach 4-feet in three years. When planted in a cluster, they should be as close together at the base as possible. Being crowded, they spread from one another as they grow, each seeking its share of light. Following the law of "survival of the fittest," the largest palm in the cluster will hog water and food from the others and grow taller faster, thus contributing to the interest and composition of the design.

Palms in patios should be placed 25-to-50 feet from the house so that when they reach maturity, their fronds will be visible from the house's interior. If planted too close, nothing will show from a window but the trunks.

When planted beside a pool, a palm will cast its exotic image into the water if planted at an angle to overhang the pool. To achieve this effect, plant a 10-footer canted at 45-degrees. After a few years it will begin to turn upward at the top and a beautifully curved trunk will result.

FREE!

*Helpful brochure
for rock hobbyists!*



This new brochure, fresh off the presses, is available without charge to rock hobbyists and readers of Desert Magazine. Special sections on sharpening, reversing and installation of diamond blades for better lapidary cutting...also includes useful tips on coolants, lubricants, speeds and feeds, and other suggestions on

how to get longer and better wear from your cutting equipment. Compact and easy-reading, well-illustrated. Write today for your copy.

Please mail me your free brochure, "Do's & Don'ts for Lapidary Cutting."

Name

Address

City, State

DEPT. D-8



M. K. DIAMOND ♦ SINCE 1886

Diamond Products
12600 Chadron,
Hawthorne, Calif.



Custom Made Auto Sun Shades

"Take the sizzle out of the Sun." Your car or wagon up to 15° cooler. Blocks the sun's rays and public's gaze yet gives excellent visibility and ventilation. Ideal for campers, travelers, and every day driving. Greatly improves air conditioning efficiency. Custom made for cars and wagons 1955 through 1963. Easy to install with enclosed simple instructions. Write for Free catalogue and prices. Give make and model, 2 or 4 door. Prompt Shipment. **Sidles Mfg. Co.,** Box 3537D, Temple, Texas.

LAND ROVERS AND JEEPS

Station Wagons and Trucks
2 and 4-Wheel Drive
NEW and USED

SALES — PARTS — SERVICE

Hall Motors

Cypress and Van Buren
Riverside — Arlington

THE ANGEL OF SAN JACINTO

BY

HELEN GILBERT



NEARLY a half-century ago, a trainman stopped at Banning, California, and excitedly told Russell Donaldson, early-day photographer, that he had seen an angel rise out of the dust of a rockslide on the mountain near Whitewater. The angel was not a figment of his imagination, but was of solid stone and is visible today just as it was that spring day when Donaldson hurried down toward Palm Springs to take pictures of it. It is one of the more spectacular landmarks of the area, although unseen and unknown to most visitors to the popular resort of Palm Springs.

Near the crest of a rugged slope of Mt. San Jacinto, two miles northwest of Palm Springs, where State Highway 111 follows the Whitewater River wash, the form of an angel in flowing white robes and with wide-spread wings, may be seen.

Wings of the angel are formed by

a crest of two ridges just below the 2300-foot level. A white boulder between the ridges forms the head, and an outcropping of white granite shapes the robes of the standing figure which is from 400 to 500 feet in height and is designated on Forest Service maps simply as the "Desert Angel."

Although not as clearly defined as it was a few decades ago, due to erosion, the angel is still plainly visible. As a result of settling and changes that have taken place, some of the delicate ethereal quality has been lost, but it is still inspiring and the robes now seem to swirl about the figure.

The best point from which to view the impressive landmark is in the vicinity of Garnet, on U. S. Highway 99 near the Indian Avenue overpass. The landmark is best seen during early morning hours when the first rays of sun catch the hilltops in sum-

mer and early winter months. Later in the season, when the sun moves further south, shadows diminish its outline.

The Angel may be plainly seen also from Desert Hot Springs where it has become a legend and where a hospital—Angel View Crippled Children's Foundation—has been named in its honor.

There are many legends and theories regarding the Angel's discovery. Some say that Cahuilla Indians held religious ceremonies on the slope above the Angel's head. Viola Mathews, who for many years was spokesman for the Morongo band of Cahuilla Indians, says that her grandmother pointed out the Angel to her. Her grandmother was a midwife and often traveled from Morongo to Palm Springs, and said "the angel had been there a long time." But those who saw it first credit it to a rockslide caused by a slight earthquake about 50 years ago.

Old-time desert people knew about it and looked upon it reverently. Early travelers saw the figure as they moved slowly across this stretch of barren desert. To them it was a welcome symbol because they knew that they were nearing the end of their journey without serious mishap—not a trivial thing in those days of poor roads and undependable cars.

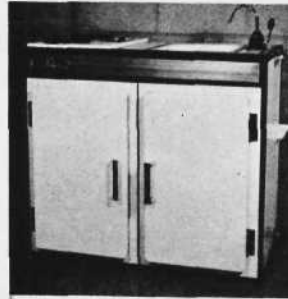
In the early days, trains stopped at the Palm Springs station at Garnet. Passengers bound for the health spa, detained and were driven to town by horse and carriage. The big steam engines stopped at Garnet to "take on water" and trainmen invariably pointed out to passengers the figure of the Angel on the mountain. A row of palm trees paralleled the railroad right-of-way, and between them ran a little stream of clear, cool water, grass-edged—a welcome sight in a land marked only by sand, sage and cactus.

Early settlers of the Coachella and Imperial valleys traveled by Southern Pacific railway from the desert "to the coast." And always as the trains, with booster engines puffing, climbed slowly toward San Geronio Pass, the eyes of the settlers were drawn involuntarily toward the Angel of the Desert.

Sometimes, after sunset, the Angel appears in the haze that shrouds Mt. San Jacinto. With flowing robes and arms folded across her breast, she appears wrapped in an aura of impenetrable mystery, still serene and beautiful—still the guardian angel of the desert.

A completely self-contained portable kitchen . . . Has its own fuel supply . . . Baked enamel finished in turquoise, white, yellow and copper tone . . . 50 lb. ice-box . . . two-burner butane stove . . . sink and guaranteed pump . . . carrying handles for easy moving . . . Tubular steel frame for durability . . .

PORT-A-GALLEY



Ideal for . . .
Camping
Boats
Patios
Trailers
Vans
Sportsmen
Jeeps
Camper shells
PORT-A-GALLEY is
36" long, 18½" wide
30" high
Retail: \$299 FOB
Pomona

For Demonstration and Information, Write To—
PORT-A-GALLEY 269 W. Bonita Ave., Claremont, California
Dealer Inquiries Invited

READY FOR THE ROUGHEST!

Mustang

TRAIL MACHINE

*Dealer
Inquiries
Invited*



Features 3-Speed gear box, left-hand operated clutch, right-hand operated shift lever, telescopic front forks, folding kickstarter. Engine: Briggs & Stratton 5¼ HP.

MUSTANG MOTOR PRODUCTS CORP., 241 CONCORD ST., GLENDALE 3, CALIF.

WHEN YOU WRITE or phone in response to an ad in DESERT, it only takes a moment to mention where you saw it. The firm you are doing business with will appreciate knowing how you learned of them, and DESERT will be grateful for your support and friendship thus expressed.



"Can't we make an exception just this once, Ed?"

Shopping Along A Navajo Trail



THE trading post is more than a market in the life of the Navajo. It's his Elks Club, Junior League, Ladies Aid and Day Nursery. It's also his Wailing Wall when he's financially over-extended.

Although some trading posts could be appropriately named Ye Olde Trading Post Shoppe as far as authenticity is concerned, those along the newly-paved Navajo Route 1 through Monument Valley are the real thing.

Here Indians of southeastern Utah and northern Arizona come to trade with old-time traders exactly as they have since 1906 when John Wetherill established the first trading post in this area at Oljeta.

Life in Monument Valley has changed little since then. Women continue to tend sheep attired in long satin skirts and Navajo men, with their heavy hair gathered into

chignons, race across the valley's soft red earth on a breed of pony distinctly their own. Arriving by cart, horseback and truck, they come to the trading posts from miles around to trade rugs and jewelry for credit applied to sugar, coffee, flour and the machine-made Pendleton blankets worn as wraps which the Navajos, paradoxically, prefer to those woven on their own hand looms.

The primary source of income in this region is derived from cattle and sheep raising, and living arrangements are by necessity non-communal. Often a Navajo goes for weeks without meeting a friend. His occasional trading post visits set the scene for flirtations to flourish, women to exchange gossip, children to munch sticky candy, and handsome Navajo men to discuss their active Tribal Council. It's also at the post that the family jewelry is hocked.

Descending into such hubbub, a tourist feels like an interloper. Merchandise hanging from ceiling rafters and tucked into long shelves is geared to the Indian customer, not the souvenir hunter. He must wait in line with the laughing, visiting, pop-drinking natives in order to make a purchase.

No one hurries. The Indian is determined to stretch out his business as long as possible, so the tourist might as well resign himself to a leisurely period of shopping. Off in a corner he'll find the inevitable pile of rugs, neatly folded, which he's free to examine. Silver and turquoise jewelry is usually displayed under a glass-covered counter, but he can look. The real treasure, however, hangs behind the cash register. That's where the trader keeps his pawn.

In the jewelry department, "dead" pawn is the most fascinating. "Dead"

pawn consists of items unredeemed after the legal pawn limit of six months to a year has elapsed. Because a Navajo's wealth and social status is consistent with the amount of jewelry he wears, these necklaces of chunky uncut turquoise with their wampum bead fringes, or heavy silver bracelets, concha belts, buttons and rings are often heirloom pieces and of greater value than the new.

This is particularly true of turquoise as turquoise commonly loses its blue tone and turns green with exposure and age. Without conducting tests, It's almost impossible to determine on sight which stones will hold their color and which will not. However, a piece from "dead" pawn, with the trader's date of acquisition marked on the ticket, is an excellent indication of the permanency of the stone's color. By the time the pawn would become "dead" pawn, an inferior stone would have turned.

Much of the turquoise mined in the western states is highly porous. It is this which subjects the stone to alteration. Modern methods such as impregnation with wax or plastic inhibit the change—or at least slow up the process—but an untreated stone which has held its true color over a period of years is a pretty reliable guarantee.

Another guarantee is that of the trader who agrees to replace any stone which in time changes color. The Navajos themselves prefer to work with untreated stones and some make pilgrimages to special mines in Nevada and elsewhere which produce turquoise less susceptible to change than that which is available from wholesalers.

Uncut turquoise jewelry may be modern, but usually this fashion indicates age. Prior to 70 or 80 years ago, turquoise beads, pendants and earrings were left uncut and combined with shells or bone beads or strung separately on fine chains woven of human hair. Combining turquoise with silver was an idea introduced by Spanish conquistadors; as was the now famous squash blossom design which is actually an Indian adaptation copied from the pomegranate blossom design worn by early Spaniards.

Most trading posts exhibit a goodly supply of pawn, but it isn't always easy to inveigle a trader into parting with it—and will grow harder as tourist wampum pours in. Contrary to a popular misconception, traders are not out to bilk the poor Indian. Most of the traders in Monument Valley were born and reared there, many



"I don't care if you are beating the heat! Get into these clothes before a tourist sees you!"

START NOW TO ENJOY THE FASCINATING HOBBY OF GEM AND MINERAL COLLECTING

The Southwest abounds in gems and minerals. Start collecting now! Use the finest gem cutting and polishing equipment for maximum pleasure and profit.

Choose the finest—HIGHLAND PARK—arbors, tumblers, belt sanders, trim saws. 45 Models available.



Highland Park MANUFACTURING CO.
1009-1015 MISSION ST. • SO. PASADENA, CALIF.
DEPT. DM-8

Metal Detectors

BOUGHT — SOLD — TRADED

Dealer For

**Detectron, Fisher, Goldak,
Raytron, GeoFinder,
Metrotech**

Repair Service

BILL'S SERVICE CENTER

15502 So. Paramount Blvd.
Paramount California

OPALS and SAPPHIRES

Direct From Australia

This Month's Best Buy

SPECIAL OFFER

Rough Black Opal from Lightning Ridge

1 WHOLE POUND \$30.00

1/2 POUND \$18.00

FREE SEAMAIL

Send personal cheque, international money order, bank draft. Free 16 page list of all Australian Gemstones.

AUSTRALIAN GEM TRADING CO.

294 Little Collins Street
MELBOURNE, C.T. AUSTRALIA

LIQUID NEOPRENE

FLEXIBLE - PROTECTIVE

COOLER SHIELD

- ★ BRUSH RIGHT OVER RUST!
- ★ RESISTS SALT - MINERALS - WATER
- ★ COOLER TANKS LAST LONGER
- ON: MOBILE HOMES ★ HOUSES
- ★ MOTELS ★ CABINS

ONLY \$3.95 QUART (PLUS FREIGHT)

SAVE YOUR COOLER

FREE DETAILS! WRITE TO:

AUTO-VACATION PRODUCTS
P. O. Box 276, San Dimas, Calif.

NAME

ADDRESS

REAL ESTATE BROKERS

"BEST OF THE WEST"
— an Exclusive
Desert Directory

Write or phone if we can serve
your desert real estate needs

★ **29 PALMS**
Jack B. Renfro, Inc.
Exclusive Property - Buy Direct
6495 ADOBE ROAD 367-2535

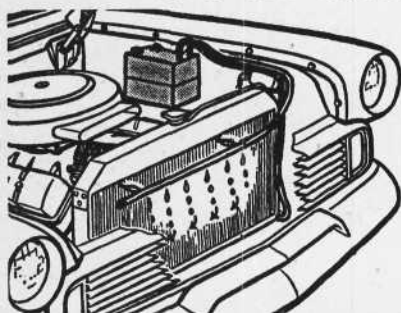
★ **BORREGO SPRINGS**
Carlson & Corey Co.
Borrego & La Jolla Properties
XMAS CIRCLE RO 7-5344

★ **LA QUINTA**
Milton A. Hoffman
Serving La Quinta Since 1934
P. O. BOX 306 DI 7-4441

REMEMBER BIRTHDAYS with
a DESERT subscription . . . \$4.50

YOUR CAR WILL NEVER BOIL WITH AQUA-MATIC MOTOR COOLER

Prevents Overheating Automatically
NOW YOU CAN DRIVE COOL ALL SUMMER!

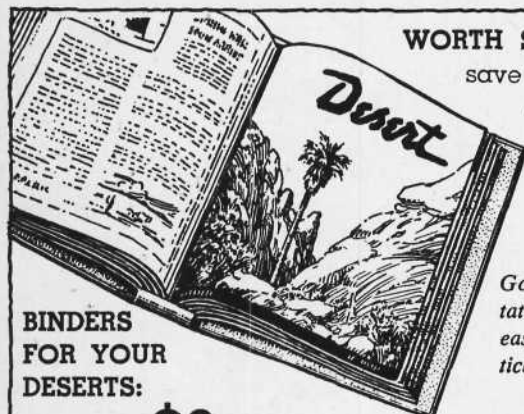


The Aqua-Matic operates when the pressure in the car's cooling system releases the radiator pressure cap, allowing steam and pressure to escape through the overflow pipe which forces water from the reservoir tank to the spray unit in front of the radiator. Pressure cap shuts off cooler automatically as evaporation drops engine temperature.

- Install on any car or truck in five minutes.
- No overheating even in extreme heat under heavy loads
- No more loss of radiator water due to overheating.
- No buttons to press—no controls—fully automatic.
- Includes hoses and fittings. Full instructions.
- With new improved 2-quart "Hi Temp" super plastic water tank Full Price **\$12.95**
- Deluxe model, with new one-gallon high pressure brass tank Full Price **\$19.95**

Add Sales Tax in Calif.

- A Quality product with money-back guarantee.
- AQUA-MATIC MOTOR COOLER, INC.**
P.O. Box 647, Burbank, California



**BINDERS
FOR YOUR
DESERTS:**

\$3 each

WORTH SAVING. 81% of our readers
save their DESERTS for future refer-
ence and reading pleasure.

The best way to keep
your back issues is in
our attractive specially-
made loose-leaf **BINDERS.**

Gold embossed on Spanish Grain Imitation Leather. Space for 12 magazines easily inserted. A beautiful and practical addition to your home book-shelf.

Mailed postpaid from:
**Binder Dept., Desert Magazine
Palm Desert, Calif.**

California residents please add 4% sales tax

the offspring of early traders. These men assume a protective as well as realistic attitude toward their Indian neighbors and, understanding the Navajo sense of value, will hold "dead" pawn far beyond the legal limit set by the Indian Service, especially when they believe the pawnee will eventually make redemption. Frequently this requires years and an item will have increased in value to a point where the trader could more than double his investment, were he to sell it to a tourist.

Trading posts, such as the ones at Oljeto, Kayenta, and Inscription House, cater primarily to Indians, but along the Navajo Trail are also a few posts with partitioned sections designed to speed up service for the tourist. Tuba City stocks a fine selection of Navajo rugs on its mezzanine, separate from the milling throngs trading for coffee below. The San Juan Trading Post at Mexican Hat, Utah, maintains a separate gift department for rug and jewelry buyers.

It's interesting to visit the first-mentioned ones just to look, if not to buy, but in doing so one must observe the customs of the land. Some

Navajo people resent photographic invasion, as in their religion everything has a spirit, including a photographic likeness. Without granting permission, an Indian subject may not be willing to share his spirit with a stranger, so keep your cameras out of sight. Also, many Indians in this area do not speak English, so avoid needless conversations with them. They are not unfriendly, exactly — they just aren't interested.

As for negotiating directly with a Navajo for an item, forget it! In the first place, it's a rare tourist who is qualified to evaluate the goods. Navajo rugs, for instance, are not priced according to thickness. Before settling on a price, a trader weighs the rug and gauges the number of threads per square inch. The tighter the weave, the less bulky the rug—and the finer. Then he ascertains whether yarns are the natural black, gray, brown and white of the sheep's wool or whether dyes or commercial yarn have been used and if so, of what quality. Facilities for producing fast color with dyes are not conveniently available to some of the local weavers, so rugs woven with yarn they've dyed in the hogan are likely to fade. If colored yarns are of vat-dyed commercial quality and used in total, or combined with those of natural wool carded on the reservation, however, the buyer is safe. But only a reputable trader is in a position to know his weaver and place a proper value on the rug. The average tourist is not.

The rug market is especially attractive along the Navajo Trail, since it is here that the sheep are raised and the wool washed, carded and woven into rugs for sale in other parts of the Southwest. Indian artifacts also tempt the collector—bargains which in a more heavily traveled area would have been snapped up long ago. Navajo Route Number 1 joining Utah Highway 47 is still unrecorded on most maps. Treasure seekers should make the trip now. ///

. . . your headquarters for a
Southern Utah vacation

San Juan TRADING POST

**ON PAVED HWY. 47
MEXICAN HAT, UTAH**

22 Modern Motel Units . . . Guided Scenic
Tours to Monument Valley and Fabulous San
Juan County . . . Curio Shop, Navajo Rugs,
Indian Jewelry . . . Cafe . . . Film, Camping
Supplies . . . Service Station . . . Licensed
Hunting Guides . . . Accommodations For
Hunters During Deer Season.

Phone: 42, Mexican Hat, Utah

WONDERLAND EXPEDITIONS • WONDERLAND EXPEDITIONS •
**BOATING/HIKING
 EXPEDITIONS**
**ESCALANTE/GLEN CANYON
 AREA**
 SEND FOR EXPEDITION LITERATURE
WONDERLAND EXPEDITIONS
 Ken Sleight, River Guide
 6575 South Main Bountiful, Utah
 WONDERLAND EXPEDITIONS • WONDERLAND EXPEDITIONS •

UNDISCOVERED WEALTH!



Buried loot, coins, silver, gold, jewelry, battle relics! Transistor M-SCOPE detects them all. Used world-wide by experienced explorers since 1932. Exciting! Rewarding! Lightweight and supersensitive, the powerful M-SCOPE offers greater depth penetration, over 200 treasure-hunting days of battery life. Easy terms. Guaranteed. Write for the FREE illustrated booklet of fascinating customer experiences.

FISHER RESEARCH LAB., INC.

Dept. 2C, Palo Alto, Calif.

NEW TOURS
 Southeastern Utah
 Northern Arizona



"AMERICA'S LAST FRONTIER"

ALL-EXPENSE TOUR — \$250

Round-Trip from Salt Lake City

**All-Expense—Six Days (five nights)—Jeep Trips
 Air-Conditioned Buses**

Every turn gives a vista of green-clad plateaus or flaming cliffs. Monument Valley and Capitol Reef National Monument, Arches National Monument, Dead Horse Point, Fisher Towers, Moab (Uranium capital), Natural Bridges, Goose Necks of the San Juan; Navajo, Apache and Hopi Indians; Kayenta and Tuba City, Glen Canyon Dam and Lake Powell (when complete), Escalante, Petrified Forests, Boulder City, Circle Cliffs. The entire 1253 miles a paradise for camera fans. Color for pictures at every season. **For details on this exciting tour write:**



exciting tour write:

GRAY LINE MOTOR DEPT. 100
 29 West South Temple Salt Lake City 1, Utah

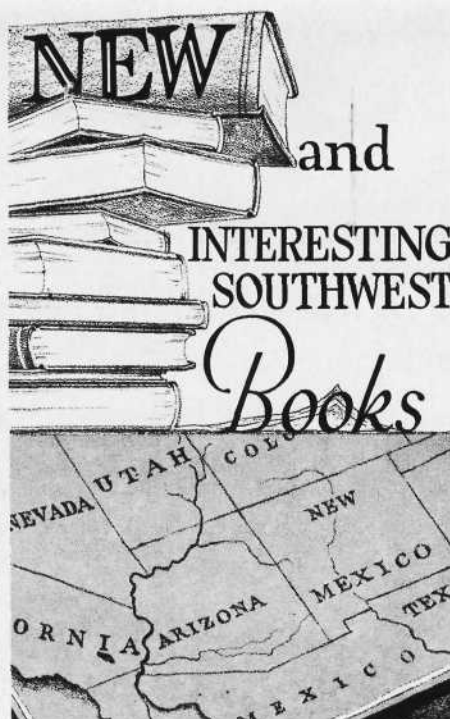
OATMAN

— ARIZONA —

**SCENIC BEAUTY
 FIRE AGATE FIELDS
 MOVIE SETS**

Please consider this your invitation to visit this fascinating corner of the West . . .

**OATMAN - GOLDROADS
 CHAMBER OF COMMERCE**



THE late Leland Quick, for 13 years editor of the *Lapidary Journal*, completed the manuscript for *THE BOOK OF AGATES* just before his death last year. Hand-somely printed and heavily illustrated, *THE BOOK OF AGATES* gives a historical background to the use of agate, tells of agate-collecting trips, gives a list of areas throughout the United States, explains how to cut and polish agate, and tops off the book with an excellent bibliography about agate and gemology in general. The Book has 232 pages, is printed on high quality stock and has a linen hard-cover.

The gemologist who would search for agates, opals, or other booty in our western United States, might take along on his travels a recent publication: *EXPLORING THE GREAT BASIN*, by Gloria Griffen Cline. Stop to think of it, you don't have to be a gem hobbyist to enjoy the heritage of our historic West. The Great Basin book tells of the effect of the fur trade on opening the Basin to exploration. In the pages we meet Jerediah Smith, Peter Skene Ogden, Joseph Reddeford Walker, John Fremont, and others who wandered the West a century and more ago. The Great Basin encompasses the western half of Utah, the southwestern corner of Wyoming, the southeastern corner of Idaho, part of Oregon, almost all of Nevada, and the eastern part of Southern California. The author, who teaches at Sacramento State College, is a student of the fur trading business. Her book is a part of "The

American Exploration and Travel Series."

One who knew the early west and its ways perhaps better than any other man was Kit Carson, the explorer, Indian scout, Indian agent, buffalo hunter, and guide for several American military expeditions throughout the Southwest. *KIT CARSON, A PORTRAIT IN COURAGE*, by Morgan Estergreen, is a thorough report on the fabulous life of Carson. A fur trapper, a meat-hunter, a guide for Fremont and Kearney, an Indian agent, a colonel of the New Mexican militia, an agent in the early days of American California, a man with 19 notches on his gun,—this was only a portion of the man Kit Carson. The book has 313 pages, a few illustrations, 12 pages of "notes on sources," and 11 pages of bibliographical leads.

—CHARLES E. SHELTON

THE NEW BOOKS . . .

THE BOOK OF AGATES, by Leland Quick; 232 pages; \$9.95

KIT CARSON, A PORTRAIT IN COURAGE, by Morgan Estergreen; 318 pages; \$5.95

EXPLORING THE GREAT BASIN, by Gloria Griffen Cline; 254 pages; \$4.95

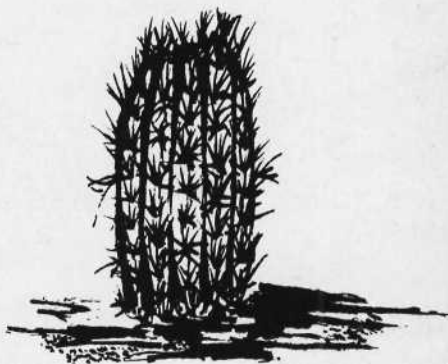
ALSO CURRENT . . .

DESERT BONANZA, by Marcia Rittenhouse Wynn. A spritely report on the early days of the Rand District. 313 pages; \$8.50

BRAVE WARRIORS, by Norman Wiltsey; a novel recounting the trials of seven Western Indian tribes. Illustrated; 380 pages; \$6.50

HOW TO ORDER . . .

The books listed above can be purchased by mail from Desert Magazine Book Store, Palm Desert, Calif. Please add 15c for postage and handling per book. California residents also add 4% sales tax. Write for free Southwest book catalog.



TRADING POST

CLASSIFIEDS

● AUTO - TRUCK - CAMPER

VACATION RENTALS, brand new 15 and 16 foot travel trailers, sleeps six people, hitch, insurance and hookup included. If you are going to Yellowstone or anywhere in the Rocky Mountain area, make arrangements to pick your trailer up in Denver. Write for details. Mobile Trailer Leasing, Inc., 4101 W. Colfax, Denver 4, Colorado.

STATION WAGON owners: Build portable dressing room attached to your wagon. Easy, illustrated plans \$2. Ada-Cabana, 1397-D Hedding, San Jose 26, California.

● BOOKS - MAGAZINES

READ THE Prospector's Guide. Tells how and where to prospect for minerals, etc. Send for application to United Prospectors, Auberry, California.

BOOKS: "PANNING Gold for Beginners," 50c. "Gold in Placer," \$3. Frank J. Harnagy, Box 105, Prather, California.

OUT-OF-print books at lowest prices! You name it—we find it! Western Americana, desert and Indian books a specialty. Send us your wants. No obligation. International Bookfinders, Box 3003-D, Beverly Hills, California.

"GEMS & Minerals Magazine," largest rock hobby monthly. Field trips, "how" articles, pictures, ads. \$3 year. Sample 25c. Box 687J, Mentone, California.

NATIONAL GEOGRAPHIC Magazines, 1888-1961, any issue, maps, bound volumes. Free literature, "Geographic Hobby," price lists, circulars on books about collecting geographics. Periodical Service, Box 465-DE, Wilmington, Del.

WESTERN GEM Hunters Atlas—all three of those popular gem atlases combined in one big book, 93 full page maps with rock hunting areas spotted in color. Complete coverage of 11 western states, plus parts of Texas, South Dakota and British Columbia. Type of material, mileage and highways are shown. Price: \$2.50 postpaid. Scenic Guides, Box 288, Susanville, California.

LEARN ABOUT gems from Handbook of Gems and Gemology. Written especially for amateur, cutter, collector. Tells how to identify gems. \$3 plus tax. Gemac Corporation, Box 808J, Mentone, California.

BURIED TREASURE & Lost Mines, by Frank L. Fish, authority on buried treasure. This fascinating hobby pays off! Book contains 68 pages of true treasure locations, 20 photos and illustrations, and vital information to help you search for hidden wealth. Book: \$1.50 postpaid. Beautiful four-color 19x24" map, showing book locations, suitable for framing for den or study, \$1.50 postpaid. Special offer: book and map, \$2.50 postpaid. Amador Trading Post & Publishing Co., L. Schaefer, 14728 Peyton Drive, Chino, California.

WORLD'S LARGEST book and magazine listing 35c. Unlimited selection, gigantic discounts. Large assortment of mail order publications with hundred of amazing offers, 30c. Astonishing moneymaking, self-help catalogs included free. Rhodes, 411-DE Davidson, Indianapolis 2, Indiana.

- How to Place an Ad:
- Mail your copy and first-insertion remittance to: Trading Post, Desert Magazine, Palm Desert, Calif.
- Classified rates are 20c per word, \$4 minimum per insertion.

COWBOY POLO—most exciting game played on horseback. Rule book, \$1. R. B. Bush, 7043 North Second, Albuquerque, New Mexico.

NEVADA TREASURE Hunters Ghost Town Guide. Large folded map. 800 place name glossary. Railroads, towns, camps, camel trail. \$1.50. Theron Fox, 1296-C Yosemite, San Jose 26, California.

"THE BOTTLE Trail" Volumes I and II. Pioneer bottle histories. Each: \$1.65 postpaid. Mrs. May Jones, P. O. Box 23, Nara Visa, N. Mex.

BOOK: "Old Bottles and Ghost Towns", many sketches. See Desert, February '63 issue. \$2.15 prepaid. Mrs. Adele Reed, 272 Shepard Lane, Bishop, California.

"VACATION ADVENTURE in Panning for Gold." Informative booklet on what is gold, history of gold in Western U. S., how to pan it and a special section on locations. \$1. MBA, Box 1167, Cortez, Colorado.

"TREASURE HUNTER'S Bibliography" lists all known treasure books, maps, authors, publishers. Every true enthusiast needs this valuable, time saving reference. Only \$2 postpaid. Shelby, Box 4266-F, Saticoy, Calif.

THAT BOOK you want, let us find it. Free search. Argonaut Book Search, Box 18, Claryville, New York.

"HOW TO" books, \$2.50 each. List free. J. G. Tyrell Co., 322 Grand Street, Danbury, Conn.

● BUSINESS OPPORTUNITIES

FOR SALE: Rock, gemstone business, tons of cutting material, fixtures, lapidary equipment, \$3000. Take it away or buy 7 room home, 4½ acres, Highway 80, two miles east of Jacumba, California, \$12,900. Terms. Box 223, Owner Holibaugh, Phone 766-4400.

● DESERT STATIONERY

DESERT, ROADRUNNER and cactus living-color notecards: \$1.50 with envelopes, from artist Henry Mockel, Box 726, Twentynine Palms, California.

● EQUIPMENT - SUPPLIES

LIGHTWEIGHT TENTS, packs, sleeping bags. We manufacture the world's finest complete line of camping and climbing equipment. Big new catalog 10c. Gerry, Dept. 22, Box 910, Boulder, Colorado.

DESERT HIKING, lightweight camping and mountaineering equipment: An excellent selection of quality equipment and food at reasonable prices. Efficient, personalized service. Write for free catalog. Sport Chalet, 951 Foothill Blvd., P. O. Box 186, La Canada, Calif.

QUALITY CAMPING and mountaineering equipment. Down sleeping bags, lightweight tents, boots. Free catalog. Highland Outfitters, P.O. Box 121, Riverside, Calif.

NEW LECTRO-FLATE air pump plugs into your auto cigarette lighter, inflates air mattresses, rubber boats, etc. so easy. Safe, won't over-inflate and fits all valves, light, compact, carry in your glove compartment. Order now, refund in 10 days if not thrilled. Send only \$9.95 plus 50c mailing cost to: Smith-Williams, Dept. B8, P. O. Box 1577, Moab, Utah.

● FOR WOMEN

LADY GODIVA "The World's Finest Beautifier." Your whole beauty treatment in one jar. Write: Lola Barnes, 963 North Oakland, Pasadena 6, California.

STRAWBERRY UPSIDE-down cake. Generations-old recipe which may now be revealed, \$1. B. Carmer, 1690 W. Pleasant View Drive, Ogden, Utah.

● GEMS, CUT - POLISHED

OPAL CABOCHONS, with good fire 60c each. Ten minimum. Phil Kendall, Apartado 80, San Miguel de Allende, Gto. Mexico.

NELLIE BASSO Minerals. Local gem material and jewelry. 675 12 Street, opposite public swimming pool. Lovelock, Nevada.

APACHE TEARS, polished to make jewelry or what have you, 10 for \$1, postpaid. William-son's Rock Jewelry, 2606 North 7th St., Phoenix, Arizona.

● GEMS, DEALERS

CHOICE MINERAL specimens, gems, cutting material, machinery, lapidary and jeweler's supplies, mountings, fluorescent lamps, books. Sumner's, 21108 Devonshire, Chatsworth, Cal.

DESERT ROCKS, woods, jewelry. Residence rear of shop. Rockhounds welcome. Mile west on U.S. 66. McShan's Gem Shop and Desert Museum. P.O. Box 22, Needles, California.

RIVERSIDE CALIFORNIA. We have everything for the rock hound, pebble pups, interesting gifts for those who are not rock hounds. Minerals, slabs, rough materials, lapidary supplies, mountings, equipment, black lights. Why not stop and browse? Shamrock Rock Shop, 593 West La Cadena Drive, Riverside, Calif. Overland 6-3956.

CULL BAROQUES, second grade, small baroques, mixed, more than 15 varieties, worth more, 6 pounds—\$5.75 postpaid. Vincil Brubaker, 5318 W. L-12, Lancaster, California.

LENWOOD ROCK & Gift Shop opening August 3. Large stock of wood, onyx, sagenite, etc. not previously offered for sale. Five miles west of Barstow on Main Street (Old Highway 66).

● GEMS, MINERALS - FOSSILS

FOSSILS: OVER 2000 species! New, 60 page, 1963 catalog, 50c (stamps OK). Sets: phyla, time periods, preservation types, etc., \$3 to \$10. Wholesale, retail. Buying, exchanging fossils, too. Mallick's Fossils, 5514 Plymouth Road, Baltimore 14, Maryland.

POCKET GOLD, rare, crystalized, \$2. Placer gold \$2. Gold dust \$1. Goldbearing black sand \$1. Attractively displayed. Postpaid, guaranteed. Lester Lea, Box 1125-D, Mount Shasta, Calif.

FRESH TIGER sharks' teeth, average 1", 50c each, \$3 per dozen. Also, fossil sharks teeth, average 3/4", 25c each, \$1.50 dozen. Ray Giger, 1644 Monterey Blvd., Hermosa Beach, Calif.

EMERALD, RUBY, Aquamarine, Topaz, specimens, plus hundreds more, and the finest rough gemstones, reasonably priced and guaranteed. Free lists. The Vellor Co., P. O. Box 2344 (D), St. Louis 14, Missouri.

SLABBAG! \$10 value for \$7.50. Includes lapis, rhodochrosite, jade, and many others. Money back if not satisfied. Mother Lode Gems & Minerals, Route 1, Box 1510, Meadow Vista, California.

UPPER DEVONIAN fishes known as Bothriolepis from the locality of Scaumenac Bay, Quebec. They are available from \$5 to \$15 each. Fossil Fishes Unlimited, 397 Alphonse St., Rochester 21, N. Y.

FROM GEORGIA—deep sea green talc, mineral specimens of striking beauty. About 3x5". \$2 each, postpaid. Douglas Minerals, Box 132, Albemarle, North Carolina.

● GEMS, ROUGH MATERIAL

THIRTY MINERAL and crystal specimens, individually wrapped and identified, \$5. Fifty, \$10. Satisfaction guaranteed. Green's, 6552 Vrain, Arvada 3, Colorado.

BEAUTIFUL CUT or rough Australian fire opals sent on approval. See before you buy, from one of America's largest opal importers. Free list. Walker, 20345 Stanton Ave., Castro Valley, California.

MEXICO AGATE specials: Black lace, yellow and red sagenite, flame, small moctezuma, choice \$1 per pound. Postage, please. Lovelace Rock & Mineral Shop, 2610 Armory Road, Wichita Falls, Texas.

NEW FIND! Lavender scenic wonderstone, takes beautiful polish. Often cuts scenes of hills, valleys, lakes, sunsets, highways, sand dunes and others. Best we have ever seen. 8 pounds for \$5 postpaid. Ricolite Gem Co., 700 South Espina Street, Las Cruces, New Mexico.

● HOME STUDY

LEARN JEWELRY Making at home. Inexpensive Art Metalcraft course teaches how to make all types cuff links, earrings, tableware, etc. of silver, gold, copper. Send postcard for free booklet. Interstate Training Service, Dept. L-1, Portland 12, Oregon.

LEARN NATURALISTIC oil painting by correspondence. Amateur and advanced. Forty point critique of each painting. Walker School of Art, Box 486, Montrose 1, Colorado.

LEARN WHILE asleep, hypnotize with your recorder, phonograph. Details free. Research Association, Box 24-DS, Olympia, Wash.

LEARN SPANISH fast, for travel, pleasure, income. Amazing new method. Full particulars, introductory lesson 25c. Trader, Box 3488-DM8, Ridgecrest, California.

● INDIAN GOODS

INDIAN PHONOGRAPH records, authentic songs and dances, all speeds. Write for latest list: Canyon Records, Dept. D, 834 No. 7th Avenue, Phoenix, Arizona.

SELLING 20,000 Indian relics. 100 nice ancient arrowheads \$25. Indian skull \$25. List free. Lear's, Glenwood, Arkansas.

AUTHENTIC INDIAN jewelry, Navajo rugs, Chimayo blankets, squaw boots. Collector's items. Closed Tuesdays. Pow-Wow Indian Trading Post, 19967 Ventura Blvd., East Woodland Hills, Calif. Open Sundays.

THOUSANDS INDIAN relics, many museum quality. Baskets, pottery, rugs, pipes, fetishes, necklaces, drums, stone cogs, axes, tools, metates, mortars, arrowheads, pendants, beads. Open daily. Sunday and Monday appointments only. Krechel's Antiques, 2738 Honolulu Avenue, Montrose, Calif. Phone 213-249-5324.

FINE RESERVATION-MADE Navajo, Zuni, Hopi jewelry. Old pawn. Many fine old baskets, moderately priced, in excellent condition Navajo rugs, Yei blankets, Chimayo homespun, pottery. A collector's paradise! Open daily 10 to 5:30, closed Mondays. Buffalo Trading Post, Highway 18, Apple Valley, California.

10,000 INDIAN relics for sale, trade; large collections sea shells and choice fossils. 17437 Bellflower Blvd., Bellflower, Calif. Phone TO 74356.

THREE FINE prehistoric Indian war arrowheads \$1. Flint scalping knife \$1. Rare flint thunderbird \$3. All \$4. Catalog free. Arrowhead, Glenwood, Arkansas.

● JEWELRY

GENUINE TURQUOISE bolo ties \$1.50, 11 stone turquoise bracelet \$2. Gem quality golden tiger-eye \$1.75 pound, beautiful mixed agate baroque \$3 pound. Postage and tax extra. Tubby's Rock Shop, 2420 1/2 Honolulu Ave., Montrose, California.

● MAPS

SECTIONIZED COUNTY maps — San Bernardino \$3; Riverside \$1; Imperial, small \$1, large \$2; San Diego \$1.25; Inyo \$2.50; Kern \$1.25; other California counties \$1.25 each. Nevada counties \$1 each. Include 4 percent sales tax. Topographic maps of all mapped western areas. Westwide Maps Co., 114 West Third Street, Los Angeles 13, California.

METSKER'S NEW county maps show all roads, creeks, lakes, sections lines, etc. For hunters, fishermen, rockhounds. \$1.25 each at sports, stationery and map stores. Metsker's Maps, 111 So. 10th St., Tacoma, Washington.

● MINING

\$1 FOR gold areas, 25 California counties. Geology, elevations. Pans \$3, \$2.50. Poke \$1. Fred Mark, Box 801, Ojai, California.

ASSAYS. COMPLETE, accurate, guaranteed. Highest quality spectrographic. Only \$4.50 per sample. Reed Engineering, 620-R So. Inglewood Ave., Inglewood, California.

● OLD COINS, STAMPS

SILVER DOLLARS special. All uncirculated. 1878cc \$5., 1880-81-85-1892cc \$20 each. 1898-1904 0 mint \$5 each. 1899-1900-01-02 0 mint \$3 each. Coin catalog 50c. Shultz, Salt Lake City, 10, Utah.

ANY THIRTEEN Philadelphia Lincolns except 09vdb, 15P, 31P, 32P, 33P, \$1.10. Proof sets 1957 \$4.25, 1960 \$4.25, 1961 \$3.10. Tracimoney, 25 Quinlan, Staten Island 14, N. Y.

TRUNKFUL 25,000 Indian-Lincoln cents mixed (from the 1920s and older). Will pack "grab-bag" style, 400 mixed—\$25., sample bag of 20—\$2. Mrs. Fischer, Box 5490, Sherman Oaks 101, California.

● MANUSCRIPTS WANTED

WANTED SHORT stories, books, articles, plays of all descriptions for sale to publishers, producers. Free literature. Literary Agent Mead, Dept. 6A, 915 Broadway, New York City 10.

● PHOTO SUPPLIES

RAPID, CONVENIENT mail service for quality black-white or color film finishing. Write for our free bargain brochure. The complete photographic store since 1932: Morgan Camera Shop, 6262 Sunset Blvd., Hollywood 28, Calif.

WESTERN COLOR slides, National Parks, Monuments, nature, Indians, mountains, weather. Request listings. Nesbit's Quality Approvals, 711 Columbia Road, Colorado Springs, Colo.

8mm MOVIES: 50' color. Calico, California; San Francisco's Cable Cars; Virginia City, Nevada; California's Mother Lode; Death Valley. \$4.95 each. Longstreet, 6977 Sunnyside, Hollywood, California.

WILDLIFE, SCENICS, Aleutian Islands and odd spots, three samples and catalog \$1. Aleutian Films, Box 3412, Long Beach, California.

● PLANTS, SEEDS

1962-63 WILDFLOWER and Wild Tree Seed Catalog, lists over 700 of the best varieties, 50c. Scientific name, common name, informative, artistic. Clyde Robin, P. O. Box 2091, Castro Valley, California.

CHIA AS featured in "Hot Cakes and Chia" (April '58 Desert) for sale, \$5.50 pound. Wonderful health food. Gregory, Box 147, French Camp, California.

CACTI AND succulents. Send for free price list. Special this month, 10 assorted cacti \$3.50 or 10 assorted succulents \$3.50. Free copy of "Cactus Growers Guide" with each order. We are members of California Cactus Growers Association, Inc. The Cactus Garden, 5311 Scotts Valley Drive, Santa Cruz, Calif.

● REAL ESTATE

FOR INFORMATION on desert acreage and parcels for sale in or near Twentynine Palms, please write to or visit: Silas S. Stanley, Realtor, 73644 Twentynine Palms Highway, Twentynine Palms, California.

LAS VEGAS LOTS for sale, in fast-selling subdivision, just five minutes from downtown. Choice level lots (50'x100') at lowest terms in Las Vegas. Only \$10 down, \$10 per month. \$995 full price . . . while they last. Send today for free brochure. Land, Inc., Dept. DC, 130 Las Vegas Blvd. South, Las Vegas, Nev.

OREGON RANCHES near Medford and Grants Pass, 50 to 160 acres low as \$150 down, \$35 monthly. Free catalog. Cal-Ore Ranches, 843-DX East Main Street, Medford, Oregon.

FOR SALE: 10 acres, Salton Sea area, playground of the desert, make offer. Ida Watson, 133 Southeast Leland Street, Port Charlotte, Fla.

MORE CLASSIFIEDS

CLASSIFIED ADS

(continued)

SALTON SEA: Fine trailer park site, choice residential lot by golf course overlooking Salton Sea. Iris O. Smith, Realtor, Room 1, Arcade Building., (next to store and post office) Salton City, California.

HIGH DESERT acreage and cabins, 1-1/4 acre homesites \$990. Ninety minutes from Los Angeles. Phelan Realty, Box 8/M, Phelan, Calif.

SELL-TRADE, Colorado, 3415 acres irrigated shallow wells, river bottom land, very productive, carry 2000 cattle yearly, large feeding pens. Highly improved, near city, can subdivide. Write: E. H. Grantham, 210 Main, Ordway, Colorado.

2 1/2 LEVEL acres, 100 miles from Los Angeles, \$990 full price. \$25 down, 15 month. Beautiful area near Mojave River, highway, suitable weekend retreat, year-round living. AX19188, Box 8062, Los Angeles 8, Calif.

● TREASURE FINDERS

NEW—FLUORESCENT mineral detector that detects boron, fluorine, lithium, molybdenum, strontium, tungsten, uranium, zinc, zirconium and other minerals. Cigarette pack size, daylight operation, requires no batteries. Price \$12.50. Free brochure. Essington Products & Engineering, Box 4174, Coronado Station, Santa Fe, New Mexico.

SENSITIVE TRANSISTOR metal locators. Find gold, silver, buried treasures. \$19.95 up. Free catalog. Relco, Dept. D, Box 10563, Houston 18, Texas.

FIND LOST or hidden treasures with new transistor metal detector, underwater metal detectors, scintillation counters, etc. Free literature. Gardiner Electronics, Dept. 51, 2545 E. Indian School Road, Phoenix, Arizona.

● WESTERN MERCHANDISE

GHOST TOWN items: Sun-colored glass, amethyst to royal purple; ghost railroads materials, tickets; limited odd items from camps of the '60s. Write your interest—Box 64-D, Smith, Nevada.

WE HAVE nice collection colored desert glass and bottles. Many varieties nice rocks and tables. Apache Tears, 20 for \$1.15. Roeders Rock Shop, Box 355, Jacumba, California.

GENUINE DEERSKIN billfolds, very serviceable. \$5.50 postpaid. F.E.T. included. J. G. Tyrell Co., 322 Grand St., Danbury Conn.

BEAUTIFUL LAVENDER sun-colored bottles and insulators of the Old West, \$4 each. Selected to please. Harvey T. Smith, Box 673, Hilts, California.

● MISCELLANEOUS

FREE "DO-it-Yourself" leathercraft catalog. Tandy Leather Company, Box 791-K48, Fort Worth, Texas.

WAMPLER WILDERNESS trips—hiking and riding. California, Arizona, Mexico. Also Gypsy Tours—Arizona back-country motor caravan camping trips. Year-around activities at moderate prices. Details: Box 45, Berkeley 1, Calif.

SEE OUR playing cards and other novelties, free samples and wholesale price list. Nina, 624 South Michigan, Chicago 5, Ill.

LETTERS FROM OUR READERS

Naturally-Cooled Melons ...

To the Editor: I would like to pass along some advice to desert newcomers—especially those who find themselves in the desert on a good hot summer day. You don't have to carry ice to have cold watermelon. Put the melons in your car (be sure they don't roll around and get smashed) and when you come to a bit of shade, pull over. Don't worry if there is no shade—your car is making shade.

Now kick about an inch of the top soil from under the runningboard, cut or break the melon into pieces, and place in the spot you've cleared out. If there is a little breeze, the melon will cool itself in about 15 minutes. If no breeze, it takes a little longer.

Cool watermelon is better for you than hitting that waterbag or canteen. And if you are going on a long hot hike, don't be afraid to eat watermelon for breakfast. It will take you farther than water.

This is my first letter to any magazine. If you can use it, fine.

VERNE F. FOWLER
Chino, Calif.

Wonderful Vacation ...

To the Editor: Thank you for your March 1961 and April '62 and '63 issues on scenic Utah. We used them to guide our 2000-

mile vacation trip and it's the best we've ever had. Took 200 color slides!

HORACE G. WHITECAR
Pasadena

Prehistoric Horse ...

To the Editor: I've heard that on the Arizona side of the Colorado River in the mountains back from the shores of Lake Mohave, a herd of wild horses the size of a dog with normal horse-sized heads has been seen through the years. It is believed they might be living progeny of a breed long extinct. I've checked this out with several natives of the area, including Murl Emery, who are familiar with the rumor and know old prospectors they consider reliable who claim to have seen the animals. I would like to arrange a photographic expedition by plane into the area to prove the validity of the animal's existence. If any DESERT reader can supply information relative to the subject, will they please send the information to me c/o DESERT Magazine. I'd particularly like to know exactly where they've been seen.

ROYCE ROLLINS
Las Vegas

Kumquat may! ...

To the Editor: Could Lucille Carleson include a recipe for kumquat preserves in DESERT Cookery? I am new to the Southwest and understand that this Oriental fruit is known in some regions as the desert lemon.

VERA BLANKENHURST
Palm Springs

Discovering the Desert ...

To the Editor: Before seeing your magazine I had always thought of the desert as a part of earth's anatomy to be pitied or despised for its desolate bleakness. Now I love it more than any other type of land. Thank you for opening a door to a wonderful place.

DEBBIE CULLIO (age 13 1/2)
Whittier

Mysterious Trophy ...

To the Editor: In 1933 I dug up a trophy cup in Fontana, California, which was inscribed—

Elsinore Lake
July 3, 1886
Regatta

Won by the Sail Boat

but that is all. The name of the boat is missing.

I have been unable to locate information regarding this race. Although present records indicate that the first sail boat race in California was held in 1904, it is possible that this one at Elsinore Lake will prove that erroneous.

Could a DESERT reader shed more light on the subject?

DORIS McCARGAR
Yerington, Nevada

CLASSIFIED ADS

1000 NAME and address labels, \$1 postpaid. J. G. Tyrell Co., 322 Grand St., Danbury, Conn.

SEARLES LAKE gem, mineral and hobby shop: October 12-13, Trona, California. Camping, swimming, raffle, field trips.

CANYON WONDERLAND Rail Tour: October 26—November 3, 1963. Fall tour follows highly successful spring trip. Compare Arizona Grand Canyon, Barranca del Cobre. Spectacular scenery, fall coloring, colonial towns, make Mexican friends plus unusual rock collecting, most experienced tour leader. Information: Wampler Tours, Box 45, Berkeley 1, California.

SIRE: RICKY TAYLOR 2-year-old colt. Dam is Buzzy Bell Star. This large mare has excellent breeding, for speed, in training, reasonably priced, \$1500. Hibbard, 2415 Corman Road, Longview, Washington.

SOLAR POWERED water heater that really works and saves you money. Build "Old Sol" yourself, 36 gallons, completely automatic. Runs on sunshine and is capable of extremely fast recovery. Works in homes, cabins, trailers. Plans and instructions including where to buy materials, \$2. L. Applegate, Box 71A, Landers, California.

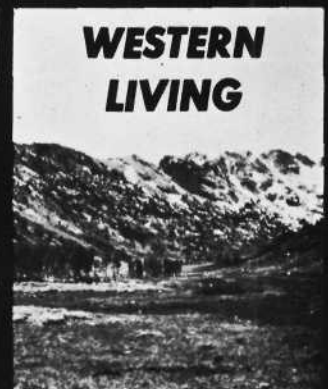
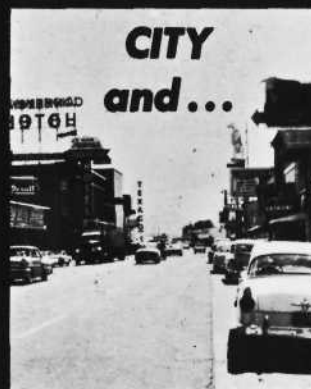
BIG MAILS, replete with opportunities and where to buy bargains, only 25c. Tony Matzkewitz, 125-DM Thames Street, Brooklyn 37, N. Y.

GET MAIL from everywhere. Get listed for life, Kazaks, 234 East 58th Street, New York 22, New York.

NOW... Start Enjoying "THE BEST of TWO WORLDS"

2 1/2 ACRES

JUST 1 1/2 MILES from ELKO, NEVADA



\$1 DOWN / \$10 PER MONTH / FULL PRICE \$595.00
NO INTEREST NO CARRYING CHARGES

MEADOW VALLEY RANCHOS



BOOMING NEVADA IS EQUALED BY ONLY A FEW PLACES IN THE WORLD. Population has surged Westward in ever increasing numbers. Westward to Nevada, where the air is fresh and clear, taxes are low or non-existent and opportunity is open to all. Yes, Nevada is booming and real estate investors are prospering. It is a proven fact that many purchasers of Nevada acreage have realized fabulous profits from small investments. Now, a NEW Nevada Real Estate Opportunity exists for you. This Ground Floor Opportunity is **MEADOW VALLEY RANCHOS**, located only 1 1/2 miles from the thriving city of Elko, Nevada.

THE VERY BEST FEATURES OF TWO WORLDS

...THE WORLD OF THE WEST Located in prosperous Elko County, the ranchos have the backdrop of the majestic Ruby Mountains. The sparkling Humboldt River is a short 1/2 mile away. Every Rancho fronts on a graded road that leads into coast to coast U.S. Highway 40. Amidst these spectacular surroundings **MEADOW VALLEY RANCHO** owners can relax and enjoy the wonderful life of the Golden West.

...THE WORLD OF CITY CONVENIENCES The bustling city of Elko with its modern schools, shops, theaters, hospital and airport is only 1 1/2 miles away. The Experienced, Successful Developers of **MEADOW VALLEY RANCHOS** are not offering remote land where purchasers have to hope for progress and expansion. They offer you the opportunity of a life time, a chance to participate in Nevada's continuing boom . . . Minutes from the conveniences of hospitable Elko, in the midst of current growth and progress, **MEADOW VALLEY RANCHOS** has all the necessary ingredients to skyrocket in value!

RECREATION UNLIMITED:



FISHING: In jewel like lakes, and mountain fed bottom streams you'll catch trophy size German Browns, Rainbow and Brook Trout . . . large mouth fighting Bass. **RANCHO** owners can catch their dinner within easy driving distance of the property lines.

HUNTING: Hunters from all corners of the globe come to Elko County to hunt the big game species Mule Deer . . . Quail, Chukar, and Partridge are found in abundance.



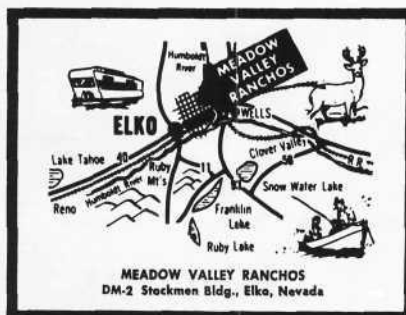
GOLF: A mere one mile from **MEADOW VALLEY RANCHOS** is the Ruby View Golf Course. No rush for starting times on this city owned and maintained golf course, but golfing as it should be enjoyed. Play a leisurely 9-18 or 36 holes surrounded by breathtaking scenery, minutes from your rancho.

YOUR OWN LAKE . . . You, and your invited guests will spend many happy hours boating, fishing and picnicking at nearby Lake Osino. There is no charge to Rancho owners for full rights to the use of this private multi-acre lake and park area.

PROVEN OPPORTUNITY: Yes, individuals are taking advantage of Nevada opportunity. But the countries financial experts, our leading corporations are also investing in their Nevada futures. Industrial giants build plants where Increasing Land Values and Population demand them. Anaconda Copper has completed a \$32,000,000 plant. North American Aviation, Kaiser Steel and Curtis-Wright are building plants or have secured large acreage.

LOW OR NON-EXISTENT TAXES: As a result of Nevada's low realistic tax structure, Profits And Wages Are Kept; not paid out to the state. **NEVADA HAS NO STATE INCOME, INHERITANCE, CORPORATION OR GIFT TAX.** The low real property tax is definitely limited by the state constitution. **YES, NEVADA IS ONE OF OUR LAST FRONTIERS OF TAX FREEDOM!**

TOTAL COSTS: The full price of the title to your 2 1/2 acre Rancho is only **\$595.00**. Complete payment schedule is **\$1.00 down and \$10.00 per month**. No interest, no carrying charges. Live, Vacation or Retire on your land, or simply hold for investment security. Wise men like Andrew Carnegie said, "More money has been made in Real Estate than in all industrial investments combined." **Make MEADOW VALLEY RANCHOS' PROSPEROUS FUTURE — YOUR FUTURE. DON'T MISS THE GOLDEN OPPORTUNITY!**



MEADOW VALLEY RANCHOS

DM-2 Stockmen Bldg., Elko, Nevada

Yes! — Reserve acreage at **MEADOW VALLEY RANCHOS** for me — 2 1/2 acre parcel, \$595 — payable \$1 down, and \$10 a month, no interest no carrying charges. Send purchase contract and map showing exact location of my holding. You will return my deposit if I request same within 30 days. Have indicated below number of Ranchos desired.

SIZE ACRES	DOWN	PER MO.
2 1/2	\$1	\$10
5	\$2	\$15
7 1/2	\$3	\$20
10	\$4	\$25

MAIL COUPON TODAY

Name: _____

Address: _____

City: _____ Zone: _____ State: _____

Indicate No. of Ranchos — Total enclosed \$ —

TRAVEL GUIDES

TO INTERESTING
OUT-OF-THE-WAY
PLACES IN THE SOUTHWEST

52 BACK-ISSUES OF DESERT MAGAZINE — FOR SALE AT REDUCED PRICES

There are good reasons why the majority of our subscribers save their old DESERT issues . . . ACCURATE INFORMATION and DETAILED MAPS that will lead you to exotic corners of a fascinating land . . . ghost towns, gem-mineral fields, mountain peaks, lost mine locales, canyons, Indian pueblos, lakes and rivers . . .

ORDER BY YEAR & MONTH

1955

MARCH— Murbarger: "Camper's Tour of Mexico" Weight: "Gems of Monte Cristo"

MAY— Weight: "Bell Rocks in Big Sandy Valley" Murbarger: "Apache-land Marble Mine"

JUNE— Weight: "Hidden Gold of Bicer" Lesure: "Ajo's Copper Grub-stake"

JULY— Weight: "Tabaseca Trail Gold" Murbarger: "Rock Hunting Near Lovelock"

AUGUST— Henderson: "Devil's Canyon in Baja" Murbarger: "Virgin Valley Opal"

SEPTEMBER— Russell: "Panamint Ledge of Gold" Weight: "Cadiz Triobites"

DECEMBER— Murbarger: "Ichthyosaur State Park" Vargas: "Saddle Mountain Chalcedony"

1956

APRIL— Murbarger: "Nevada Antelope Range" Ransom: "Salt Creek Canyon Serpentine"

JUNE— Henderson: "Utah's Circle Cliffs" Ford: "Seventeen Palms Oasis"

JULY— Henderson: "Boating Lodore Canyon" Weight: "Chocolate Mountain Petrified Palm"

AUGUST— Weight: "Gem Rock in Ship Mountains" Wing: "Boating Little Colorado River"

SEPTEMBER—Kenyon: "Anza's Sandstone Canyon" Weight: "Agate in the Silver Peaks"

OCTOBER— Weight: "Superstition Mountain Treasure" Page: "Mine with the Iron Door"

DECEMBER— Tinker: "Baboquivari Valley" Taylor: "Gila Range Chalcedony"

1957

JANUARY— Henderson: "Trail to Chuckawalla Springs" Weight: "Little Horn Gold"

MAY— Murbarger: "Yampa Ranch" Weight: "Cast Silver in the Trigos"

JUNE—Murbarger: "White Mountains" Appleby: "Baja California Vacation"

JULY— Sperry: "Yellow Cat Gems" Murbarger: "New Mexico Back-Country Tour"

AUGUST— Henderson: "Mystery Valley" Muench: "Ancient Cliffhouse"

SEPTEMBER— Murbarger: "Organ Pipe Cactus National Monument" Conrotto: "Pino Basin Rhyolite"

OCTOBER— Henderson: "Land of Standing Rocks" DuShane: "Punta Penasco"

1958

APRIL— Dushane: "Baja California Murbarger: "Silver Cloud Opalite"

May—Murbarger: "Taylor, Nevada" Conrotto: "Chuckawalla Apache Tears"

JUNE— Murbarger: "Seven Troughs Bonanza" Conrotto: "Whipple Mountain Chalcedony"

JULY— Ward: "Mojave Back Road" Jaeger: "Amargosa River"

AUGUST— Murbarger: "Museum of Northern Arizona" Conrotto: "Verde Antique Quarry"

SEPTEMBER— Conrotto: "Rattlesnake Canyon Gold" McHunter: "La Paz"

DECEMBER— Murbarger: "Jarbidge Agate Ledge" Henderson: "Boating Glen Canyon"

1959

JANUARY— Werner: "Baja Salt Spring" Hutchinson: "Backpacking Asbestos Canyon"

FEBRUARY— Murbarger: "Rhyolite" Anderson: "Lure of Salton Sea"

MARCH— Murbarger: "Fable Valley" Heald: "Coronado National Memorial"

APRIL— Weight: "Lost Silver in the Trigos" Abarr: "Fort Ojo Caliente"

MAY— Murbarger: "Cortez, Nevada" Wortley: "Saline Valley Lost Mine"

JUNE— Abarr: "Franciscans' Saline Missions" Ouellette: "Fiery Furnace"

JULY— Werner: "Desert Mountains" Murbarger: "Sulphur, Nevada"

AUGUST— Murbarger: "Lower Colorado River" Greenawalt: "Inyo Tram"

SEPTEMBER— Tinker: "Gunnison Island" Miller: "Hole in the Rock"

OCTOBER— Hilton: "The Road to Bahia de los Angeles" Jensen: "Pipe Spring"

NOVEMBER— Hilton: "Bahia de los Angeles" Murbarger: "Navajo Dam"

DECEMBER— Hilton: "Guardian Angel Island" Ford: "Cottonwood Springs"

1960

FEBRUARY— Rigby: "Honanki and Palatki" Auer: "The Historic Huecos"

APRIL— Jenkins: "Dirty Sock Spa" Ransom: "Socorro Chrysocolla"

MAY— Weight: "Lost Wilson Bonanza" LeViness: "Ghost Ranch Museum"

JUNE— Jensen: "Lee's Ferry" Branham: "Acoma—the Sky City"

1961

AUGUST— Ford: "Pinyon Ridge" Conrotto: "Hole in the Rock Trail"

SEPTEMBER— Vargas: "Six Gem Field in Western Arizona"

OCTOBER— Murbarger: "Campers' Tour of Mexico" Jensen: "Utah's Markagunt"

NOVEMBER— Ford: "Borrego Bad-Lands" Heald: "Pena Blanca Lake"

DECEMBER— Weight: "The Dale Mines" White: "Madrid, New Mexico"

1962

JANUARY— Heald: "Phoenix Desert Parks" Weight: "Colorado River Marinaland"

FEBRUARY— Polzer: "Kino's Shrines" Harrington: "Southwest Caves"

JULY— Staff: "Salton Sea's Mullet Island" Trego: "Nevada Fourth of July"

ORDER BY YEAR & MONTH

These issues are complete and in good condition. Orders promptly filled, and mailed postage paid to any U. S. address, but supplies are limited and we reserve the right to make appropriate substitutions.

ANY SINGLE ISSUE FROM THE ABOVE LIST: 25c / ANY SIX ISSUES: \$1

SPECIAL: ALL 52 ISSUES: \$7.00!

Mail all orders to: Dept. 73, Desert Magazine, Palm Desert, Calif. 92260

Personal check or postal order must accompany all orders. Do not send cash. Be sure to include your complete mailing address.